EPA Registration No. 39967-137 Vol. 9

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Regulatory Type:	Product Registration	- Section 3		Resubmission:	O Yes	No	Print Letter	
Application Type:	Amendment			Fee For Service:	Yes	@ No	Enter More Information	1
					O Yes	● No	Tracking	٦
Company	39967 LANXESS	CORPORATION		V				
Risk Manager:	Antimicrobials Divisi	on, Risk Managem	ent Team 34		-			
Product #:	39967-137 Pr	oduct Name: VIRK	ON S					
Override#	Feet							
Me Too Section3:		Me Too Product Name:						
Application D	Date: 24-Mar-2017		OPP Rec'vd Date:	24-Mar-2017		Receipt Co	ontent	
Front End D	Date: 27-Mar-2017	Risk Mar	nager Send Date:					
FFS Due D		Nego	otiated Due Date:					
OPP Target D	ate:					•	III .	100
Fast Track: Receipt Des	cription:	New Ingredient					View/Edit	
Portal subn	nission pkg# 18332. N	otification for abn p	er prn 98-10.		New Ingr Reques			
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PRISM Documentum

You are here: <u>EPA Home</u> » <u>PRISM Documentum</u> » Inbox

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Supporting Docs

- UserGuide
- Document
 Types Guide

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SEPA		u Invironmental	nited States		псу	Form Appro		OMB No. 2 Registra Amenda Other	ation	OPP Identifier Number
			Application	on for P	esticio	le - Sect	tion I			
1. Company/Product Nu 39967-137	mber					roduct Manueline Hardy			3. f	roposed Classification
Company/Product (Ne Virkon S	eme)				PM# Team	34				None Restricted
5. Name and Address of Lanxess Corporat 111 RIDC Park W Pittsburgh, PA 152	ion est D 275-1	rive	del		(b)(i), m to: EPA R		s simil	ar or iden	tical in c	h FIFRA Section 3(c)(3) omposition and labeling
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confidential statement of f	ormula ot consi	n the provisions of PR of this product. I under stent with the terms of	notice 98-10 an stand that it is a PR Notice 98-1	d EPA regul	ations at 4	0 CFR 152.46 Sec. 1001 to	6, and no willfully	other chang	se statem	een made to the labeling or the ent to EPA. I further understand d I may be subject to enforcement
				Sect	ion - Il	I				
1. Material This Produc	Will B	e Packaged In:						4.3-		
Child-Resistant Packagi Yes* No * Certification must be submitted		Unit Packaging Yes No . If "Yes" Unit Packaging wgt.	No. per container			No. per container		2. Type of	Metal Plastic Glass Paper	
3. Location of Net Conto	7		4. Size(s) Re	tail Contair	101		5. Loc	ation of Lai		ions
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				Secti	ion - I\	/				
1. Contact Point /Comp	olete it	ems directly below f	or identification	on of individ	dual to be	contacted,	if nece	ssary, to p	ocess th	is application.)
Name Ellen M. Baldassare				Title Regulatory	Affairs and	Product Stew	vardship	Consultant		ne No. (Include Area Code) 17-2488
I certify that the i I acknowledge the both under applic	at eny	ents I have made on knowingly false or n w.	Certifica this form and nisleading star	all attach	ments the y be puni	reto are true shable by fin	e, eccur	ate and co prisonment	mplete. or	6. Date Application Received (Stamped)
2. Signature	عد	02		3. Title Regulatory	Affairs an	d Product Ste	wardshij	p Consultant		
4. Typed Name Ellen M. Baldassare				5. Date Marc	ch 24, 2	2017				NENTUM



LANXESS Corporation

March 24, 2017

US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Hardy (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501

Subject:

Notification of Alternate Brand Name Pursuant to PR Notice 98-10:

VirkonTM S (EPA Reg. No. 39967-137)

Alternate Brand Name: TrifectantTM Broad Spectrum Disinfectant

Dear Ms. Hardy,

In accordance with PR Notice 98-10, I am notifying the Agency of one (1) alternate brand name for Lanxess Corporation's VirkonTM S (EPA Reg. No. 39967-137). The proposed alternate brand name is ""TrifectantTM Broad Spectrum Disinfectant". In support of this notification is the following:

> Application for Pesticide Registration (EPA form 8570-1)—Dated March 24, 2017

Thank you for your assistance with this matter. Please feel free to contact me at 470.747.2488 or email me at Ellen.Baldassare@Lanxess.com if you have any questions.

LANXESS Corporation Ellen Baldassare Actives & Disinfection

Experimental Station 200 Powder Mill Road Building 402 Wilmington, DE 19803

Phone 470-747-2488 Ellen.Baldassare@lanxess.com

www.us.lanxess.com

Ellen M. Baldassare

Product Stewardship and Regulatory Specialist

470-747-2488

Ellen.Baldassare@Lanxess.com

Enclosures



Rivas, Lorena

From:

ellen.baldassare@lanxess.com

Sent:

Wednesday, April 26, 2017 5:30 PM

To:

Rivas, Lorena

Subject:

RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Lorena

I appreciate the note, I will admit I have not had a chance to match up the list you sent with my files as I am traveling internationally right now. I will go through and make sure I can match them up to all the CSFs I have, I believe that it will hopefully be straightforward now with the list you compiled and will follow up with any questions when you return in July.

I had one unrelated question, I had an ABN that I recently requested for 39967-138 (Different product). The ABN now shows up in PPLS under the product listing so I guess it was approved but I did not receive an approval letter. Do you happen to know who in team 34 would have worked on this and if I can get a copy of the official approval letter for the ABN--- some of the state authorities will ask me for a copy of the letter it when I go to do registrations in the different locals.

Thanks again for all your help and I wish you the best for your leave time and really appreciate the advance notice of it.

Best Regards/Mit freundlichen Grüßen,

Ellen Baldassare

LANXESS Corporation
Actives and Disinfection
Regulatory Affairs and Product Stewardship Consultant
111 RIDC Park West Drive
Pittsburgh, PA 15275
USA
(o) 470-747-2488

E-mail: ellen.baldassare@lanxess.com Website: http://www.lanxess.com

From: "Rivas, Lorena" <Rivas.Lorena@epa.gov>

To "ellen.baldassare@lanxess.com" <ellen.baldassare@lanxess.com>,

Date 04/26/2017 01:57 PM

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Ellen.

I wanted to touch bases with you regarding the list of CSF's I generated for you last week, for Registration No. 39967-137. I haven't heard from you and I wanted to also informed you starting May I thru July 5th, I will be out of the office On Leave. My last day at the office will be tomorrow.

If we don't speak, before I leave you can reach me upon my return.

Regards,

Lorena.

From: ellen.baldassare@lanxess.com [mailto:ellen.baldassare@lanxess.com]

Sent: Monday, April 10, 2017 2:55 PM

To: Rivas, Lorena <Rivas.Lorena@epa.gov>

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Lorena

Have you had a chance to get back to the CSFs for the Virkon S product? I also had a question, I had submitted a notification for an ABN for EPA 39967-138 and have seen the new ABN now listed on PPLS but had not gotten an acceptance letter from the agency. Is there a way to get an official approval letter as some state registrations will ask for it.

Thanks

Best Regards/Mit freundlichen Grüßen,

Ellen Baldassare

LANXESS Corporation
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Regulatory Affairs and Product Stewardship Consultant
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Pittsburgh, PA 15275
USA
(o) 470-747-2488

E-mail: elien.baldassare@lanxess.com Website: http://www.lanxess.com

----- Forwarded by Ellen Baldassare/LXVGZ/USERS/LANXESS on 04/10/2017 02:53 PM -----

From: Ellen Baldassare/LXVGZ/USERS/LANXESS To: "Rivas, Lorena" <<u>Rivas, Lorena@epa.gov</u>>,

Date: 02/27/2017 04:41 PM

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Lorena

Thanks for the reply, I certainly understand you all must be very busy right now! I appreciate your help!

Best Regards/Mit freundlichen Grüßen,

Ellen Baldassare

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E-mail: ellen.baldassare@lanxess.com Website: http://www.lanxess.com

From: "Rivas, Lorena" < Rivas, Lorena@epa.gov>

To: "ellen.baldassare@lanxess.com" <ellen.baldassare@lanxess.com>,

Date: 02/27/2017 04:33 PM

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Ellen,

Thank you for sending me the updated list of CSF. I will hopefully get this done by this week. Thank you for your understanding and yes lots and lots of changes.

Have a nice evening.

Lorena

From: ellen.baldassare@lanxess.com [mailto:ellen.baldassare@lanxess.com]

Sent: Monday, February 27, 2017 4:30 PM To: Rivas, Lorena <Rivas.Lorena@epa.gov>

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Lorena

I'm just following back around on this so I don't forget what's going on. I'm sure you're busy right now with all the changes at EPA and just wanted to make sure you got my email.

Thanks!

Best Regards/Mit freundlichen Grüßen,

Ellen Baldassare

LANXESS Corporation Actives and Disinfection Regulatory Affairs and Product Stewardship Consultant 111 RIDC Park West Drive Pittsburgh, PA 15275 USA (o) 470-747-2488

E-mail: ellen.baldassare@lanxess.com Website: http://www.lanxess.com

---- Forwarded by Ellen Baldassare/LXVGZ/USERS/LANXESS on 02/27/2017 04:29 PM -----

Ellen Baldassare/LXVGZ/USERS/LANXESS "Rivas, Lorena" <Rivas.Lorena@epa.gov>, To: 02/13/2017 09:50 AM

Date:

RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Lorena

My apologies for the delay, I worked on this last week and never got a chance to send it. Attached are the CSFs I have been able to piece together from the paper trail left behind by my colleague. I included CSfs dated Aug 2, 2007, but they may have been superseded in 2009, I'm not 100% clear.

Best Regards/Mit freundlichen Grüßen,

Ellen Baldassare

LANXESS Corporation Actives and Disinfection Regulatory Affairs and Product Stewardship Consultant 111 RIDC Park West Drive Pittsburgh, PA 15275 USA

(o) 470-747-2488

E-mail: ellen.baldassare@lanxess.com Website: http://www.lanxess.com

From: "Rivas, Lorena" < Rivas. Lorena@epa.gov >

To: "ellen.baldassare@lanxess.com" <ellen.baldassare@lanxess.com>,

Date: 02/07/2017 02:05 PM

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hello Ellen,

Can you please provide the Agency with what you currently have in file. Therefore I can compare, and begin to provide you with the missing CSFs.

Let me know if you have any questions.

Thanks.

Lorena

From: ellen.baldassare@lanxess.com [mailto:ellen.baldassare@lanxess.com]

Sent: Thursday, February 02, 2017 9:32 AM To: Rivas, Lorena < Rivas, Lorena@epa.gov>

Subject: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Hi Lorena

I tried contacting Jacqueline about this a few weeks but figure she is pretty busy right now and hadn't heard back anything. I am trying to get a list of the agency's approved CSFs (Just titles of CSF and date of form) for EPA Reg. 39967-137, Virkon S. The product was recently transferred (along with myself) to Lanxess Corporation and used to go by EPA 71654-6. In the recent past you had sent me something similar after I update CSFs for another product (EPA 71654-7, now EPA 39967-138 following company transfer) and was hoping I could get something similar for Virkon S.

Mainly this is because I am trying to track what my predecessor did with naming and renaming the titles of CSFs, he had some CSFs in review and then renumbered them in the middle of the review with a new submission to the EPA but it remains unclear to me what the "Official" titles are and I also don't want to resubmit CSFs already on file or get the naming conventions on file mixed up when making updates. Again, I do not need copies of the CSFs themselves, just the titles and dated date on the forms so I can match them to all the CSFs that my predecessor left mixed together in our files!

Any help you could provide would be greatly appreciated!

Best Regards/Mit freundlichen Grüßen,

Ellen Baldassare

LANXESS Corporation
Actives and Disinfection
Regulatory Affairs and Product Stewardship Consultant
111 RIDC Park West Drive
Pittsburgh, PA 15275
USA

Rivas, Lorena

From:

Rivas, Lorena

Sent:

Friday, April 21, 2017 4:03 PM

To: Subject: 'ellen.baidassare@lanxess.com'

Subject.

RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

Attachments:

CSF's for Registration No. 39967-137.pdf

Hi Ellen.

Attached you will find the list, I generated of all the Approved Basic/Alternates for Virkon S Product, Registration No. 39967-137. Please look over the list and let me know if you have any questions.

Have a nice weekend.

Lorena

From: ellen.baldassare@lanxess.com [mailto:ellen.baldassare@lanxess.com]

Sent: Monday, April 10, 2017 2:55 PM
To: Rivas, Lorena < Rivas. Lorena @epa.gov>

Subject: RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

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Subject. RE: Request for list of CSFs on file as approved for 39967-137 (Formerly 71654-6)

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From: Ellen Baldassare/LXVGZ/USERS/LANXE To: "Rivas, Lorena" <<u>Rivas.Lorena@epa.gov</u>>,

Date: 02/13/2017 09:50 AM

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Date 02/07/2017 02:05 PM

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Ellen Baldassare

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Regulatory Affairs and Product Stewardship Consultant
111 RIDC Park West Drive
Pittsburgh, PA 15275
USA
(o) 470-747-2488

E-mail: ellen.baldassare@lanxess.com

Website: http://www.lanxess.com

April 21, 2017

Agency Approved Confidential Statement of Formulas (CSF's) for Registration No.39967-137

Basic Formulation	dated	04/17/2006
Alternate Formulation	dated	10/10/2006
Alternate Formulation #1	dated	06/17/2009
Alternate Formulation #1.1	dated	06/17/2009
Alternate Formulation #2	dated	06/15/2009
Alternate Formulation #2A	dated	05/04/2009
Alternate Formulation #3	dated	06/17/2009
Alternate Formulation #4	dated	06/17/2009
Alternate Formulation #5	dated	06/08/2009
Alternate Formulation #6	dated	06/17/2009
Alternate Formulation #6.1	dated	06/17/2009
Alternate Formulation #6.1A	dated	06/14/2011
Alternate Formulation #6.1H	dated	06/14/201 1
Alternate Formulation #7	dated	06/17/2009
Alternate Formulation #7.1	dated	06/17/2009
Alternate Formulation #7.1A	dated	06/14/2011
Alternate Formulation #7.1H	dated	06/14/2011
Alternate Formulation #8	dated	06/17/2009
Alternate Formulation #8.1	dated	06/17/2009
Alternate Formulation #9	dated	06/17/2009
Alternate Formulation #9.1	dated	06/17/2009
Alternate Formulation #10	dated	06/17/2009
Alternate Formulation #10.1	dated	06/17/2009
Alternate Formulation #11	dated	06/17/2009

Alternate Formulation #11.1	dated	06/17/2009
Alternate Formulation #11.14	Adated	06/14/2011
Alternate Formulation #11.1	dated	06/14/2011
Alternate Formulation #12	dated	06/17/2009
Alternate Formulation #12.1	dated	06/17/2009
Alternate Formulation #13	dated	07/13/2009
Alternate Formulation #14	dated	07/13/2009
Alternate Formulation #15	dated	07/13/2009
Alternate Formulation #15.1	dated	07/13/2009
Alternate Formulation #16	dated	07/13/2009
Alternate Formulation #17	dated	07/13/2009
Alternate Formulation #18	dated	07/13/2009



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 24, 2016

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. LUANNE JERAM LANXESS CORPORATION 111 RIDC PARK WEST DRIVE PITTSBURGH, PA 15275-1112

Dear Ms Jeram:

Subject: Transfer of Pesticide Registrations and Data From Company Number 71654 to Company Number 39967

Pursuant to your request in your letter and transfer agreement of September 09, 2016, we have approved the transfer of the following registrations from THE CHEMOURS COMPANY FC, LLC, company number 71654 to LANXESS CORPORATION, company number 39967.

The effective date of these changes is the date of this letter.

Registered Products	Old EPA Reg. No.	New EPA Reg. No.
VIRKON S	71654-6	39967-137
RELYON MULTIPURPOSE DISINFECTANT CLEANER	71654-7	39967-138
OXONE CDRW-D5	71654-9	39967-139
OXONE CDRW-D1	71654-10	39967-140
ANTEC(TM) HYPEROX(TM)	71654-14	39967-141

You should indicate the new company designation, new EPA Registration Number and new Establishment Number (if it has changed) on the labeling at the next printing which should occur no later than 18 months after the effective date of this transfer. After 18 months, any product released for shipment must bear the new Registration Number and Establishment Number. If you intend to use the labels which currently appear on the transferor's product after the effective date of the transfer, but within the 18 month grace period, you must maintain

complete and accurate records which identify by batch number, lot number, or other suitable description the quantities of such product bearing the transferor's label. Each container or package bearing the transferor's label which is released after the effective date of product registration transfer, must be clearly and accurately marked with the batch number, lot number or other descriptive designation used to identify the product in your records.

Supplemental distribution agreements of registered products do not transfer with the Section 3 registration. It is your responsibility as the registrant to notify any and all supplemental distributors of the transferred product(s) of this transfer agreement. If you wish to enter into supplemental distribution agreements of your product(s) under this new registration, the form "Notice of Supplemental Distribution of a Registered Pesticide Product," EPA Form 8570-5, must be submitted to the Agency for each supplemental distributorship.

You are required to contact your local EPA Regional Office to determine what effect this transfer of pesticide registrations has on the pesticide production establishment registration.

It will not be necessary to submit labeling for review if the only changes are in the company designation and the EPA Registration Number. Other changes in the product and/or labeling may require EPA review and approval prior to distribution or sale of the product containing the new registration number. In any correspondence on these products always refer to the U.S. EPA Registration Number listed above.

The transferred registration will have the same status under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, 7 USC 136 et seq., as it had prior to the approval of this transfer.

When registrations are transferred from one company to a second company, all restrictions, data requirements, conditions (suspensions), and deadlines existing on the registrations are transferred with the registrations. The new company is responsible for adhering to or complying with all such restrictions, etc. on the acquired products.

With regard to deadlines, the transferee company is responsible for submitting all required data according to the schedules already established for the acquired products. Failure to do so will result in the issuance of a Notice of Intent to Suspend. Requests from transferee companies for additional time to submit, because they acquired the registration(s) after the 3(c)(2)(B) request was issued will not be granted. If a transferee company has other valid reasons for delays in the testing which were clearly outside of their control, then such requests for time extensions will be considered in accordance with the established procedures. Transfers occurring while a 3(c)(2)(B) request is being issued or during the 90-day response time are subject to the same conditions expressed above.

Registration is in no way to be construed as an endorsement or approval of these products by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with FIFRA.

Furthermore, the transfer of the subject registrations is approved under the condition that the annual maintenance fee obligation has been fully satisfied. The annual maintenance fee

is based solely on the total number of active section 3 and section 24(c) registrations held by the transferor. If the annual maintenance fee has not been fully satisfied, the transferee and transferor will be notified to comply within a specified time period or the affected registrations may be canceled.

The Agency acknowledges it has received a request for data transfer dated September 09, 2016 to transfer data ownership from the transferor to the transferee. The data transfer is effective the date of this letter. After this date LANXESS CORPORATION will be considered the data owner. This action will not automatically reflect on the Data Submitters List. If you want to be added to the Data Submitters List, you must submit a request by courier to:

Document Processing Desk (**DSL**)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

You may also fax it to our secure FAX at (703) 305-7670.

By copy of this letter we are informing the transferor of these changes. If you have any questions about this transfer approval please contact Louis Vaughn at (703) 308-8114.

Sincerely,

Steve Robbins, Chief

Alm fleir

Information Services Branch

Information Technology & Resource Management Div. (7504P)

cc: MS. SARA E. LYONS

THE CHEMOURS COMPANY FC, LLC

1007 MARKET STREET WILMINGTON, DE 19898

RE: L 71654 RAD 39967 10 24 2016

<u>APPENDIX A – Data Included In Transfer (The Chemours Company FC, LLC to Lanxess Corporation)</u>

Reference: 40 CFR § 152.98 (a) (3)

MRID	Name of Study	Person or Lab that Conducted the Study	Submission Date	Exclusive Use	Exclusive Use ends
45910200	DuPont Chemical Solutions Enterprise (2003) Submission of Efficacy and Product Chemistry Data in Support of the Amended Registration of Virahol Hospital Disinfectant/Cleaner & Instrument Presoak, Transmittal of 4 Studies, Mai, T. (2003) H-25618/H-25619;	E. I. du Pont de Nemours and Company	4/16/2003	N	N/A
	Virucidal Effectiveness Test: Hepatitis A Virus; Final Report: Lab Project Number:				
45910201	473-104: DCSE-2003-007,	MicroBioTest, Inc	4/16/2003	N	N/A
45910202	Mai, T. (2003) H-25618: Confirmatory Virucidal Effectiveness Test: Using Bovine Viral Diarrhea Virus (BVDV) (Surrogate for Human Hepatitis C Virus): Final Report: Lab Project Number: 473- 103: DCSE-2003-006	MicroBioTest, Inc	4/16/2003	N	N/A
45910203	Mai, T. (2003) H-25618/H-25619: Virucidal Effectiveness Test: Using Bovine Viral Diarrhea Virus (BVDV) (Surrogate for Human Hepatitis C Virus): Final Report: Lab Project Number: 473- 102: DCSE-2003-005. Bieber, B. (2003) Supplemental	MicroBioTest, Inc	4/16/2003	N	N/A
45910204	Information to Provide Chemical Identity of H-25618 and H-25619: Lab Project Number: DCSE-2003-009.	E. I. du Pont de Nemours and Company	4/16/2003	N	N/A
46013800	Dupont Chemical Solutions Enterprise (2003) Submission of Efficacy Data in Support of the Amended Registration of Virahol Hospital Disinfectant Cleaner & Instrument Presoak, Transmittal of 2 Studies.	E. 1. du Pont de Nemours and Company	6/13/2003	N	N/A
46013801	Ijaz, M. (2003) H-25618/H-25619: Virucidal Effectiveness Test Using Duck Hepatitis B Virus: Final Report. Project Number: 473/105, DCSE/2003/008.	MicroBioTest, Inc	6/13/2003	N	N/A
46013802	Pugh, J. (2003) 11-25618: Confirmatory Virucidal Effectiveness Test Using Duck Hepatitis B Virus: Final Report, Project Number: 473/106, DCSE/2003/016.	MicroBioTest, Inc	6/13/2003	z	N/A
46498600	E.I. du Pont de Nemours and Company (2005) Submission of Efficacy Data in Support of the Amended Registration of Virkon.	E. I. du Pont de Nemours and Company	3/16/2005	N	N/A
46498601	Hollingsworth, A. (2005) 11-26819 and H- 26820: Use Dilution Test Supplemental Microorganism (Staphylococcus aureus, MRSA, ATCC 33592): Final Report, Project Number: 473/108, DCSE/2005/002, 473/3/12/29/04.	MicroBioTest, Inc	3/16/2005	N	N/A

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	Hollingsworth, A. (2005) H-26819 and H-				
. d	26820: Use Dilution Test Supplemental Microorganism (Enterococcus faccalis,				
	VRE, ATCC 51299): Final Report.				
	Project Number: 473/109,	Account to the second	- Comment of the Comm		
6498602	DCSE/2005/003, 163/4/12/29/04.	MicroBioTest, Inc	3/16/2005	N	N/A
	Hollingsworth, A. (2005) H-26819, H-				
	26820 and II- 26836: Sanitizer Test for				
	Non-Food Contact Surfaces:				
	Staphylococcuc aureus, Klebsiella				
	pneumoniae: Amended Final Report. Project Number: 473/110,				
6498603	DCSE/2005/004, 473/5/12/29/04.	MicroBioTest, Inc	3/16/2005	N	N/A
0470003	Hollingsworth, A. (2005) H-26819 and H-	Whetobio rest, me	3/10/2005	14	15/24
	26820: Use Dilution Test (Escherichia				
	coli 0157: 117, ATCC 43895): Final				_ 4
	Report, Project Number; 473/111,				
6498604	DCSE/2005/005,473/1/01/12/0S.	MicroBioTest, Inc	3/16/2005	N	N/A
	Miller, M. (2005) H-26819; Virucidal				
	Efficacy of a Disinfectant for Use on				
	Inanimate Environmental Surfaces -				
	Confirmatory Assay (Feline Calicivirus as				
	a Surrogate for Norwalk and Norovirus):				
	Final Study Report, Project Number:				
6498605	A02683, DCSE/2005/006,	ATS Labs	3/16/2005	N	NUA
C00961-01	DUP01122904/FCAL/2. Ramm, K. (2005) H-26819 and H-26820:	ATSTADS	3/10/2003	iN	N/A
	Virucidal Efficacy of a Disinfectant for				
	Use on Inanimate Environmental Surfaces				
	(Feline Calicivirus as a Surrogate for				
	Norwalk and Norovirus): Final Study				
	Report. Project Number: A02684,				
16498606	DCSE/2005/007, DUP01122904/FCAL/1.	ATS Labs	3/16/2005	N	N/A
	Miller, M. (2005) 11-26819 and H-26820:				
	Virueidal Efficacy of a Disinfectant for				
	Use on Inanimate Environmental Surfaces				
	(Respiratory Syncytal Virus): Final Study				1
16498607	Report, Project Number; A02682, DCSE/2005/008, DUP01122804/RSV.	ATS Labs	3/16/2005	N	N/A
10439001	Miller, M. (2005) 11-26819 and 11-26820:	ATS LAOS	3/10/2003	18	INIT
	Virueidal Efficacy of a Disinfectant for		1		
	Use on Inanimate Environmental Surfaces				
	(Influenza A Virus): Final Study Report.		1		
	Project Number: A02681,				
16498608	DCSE/2005/009, DUP01122804/FLUA.	ATS Labs	3/16/2005	N	N/A
	E. I. du Pont de Nemours and Co. (2005)				
	Submission of Product Chemistry and				- 1
	Toxicity Data in Support of the	E. I. du Pont de			. 4 6
	Application for Registration of CDRW-	Nemours and	1/20/2004		11740 5 6
16536900	D5. Transmittal of 9 Studies.	Company	4/29/2005	N	N/A ° °
	Finlay, C. (2005) CDRW-D5: Acute Oral	E. I. du Pont de			1
	Toxicity Study in Rodents: Up-and-Down Procedure, Project Number:	Nemours and			
46536901	15656,834.26750.	Company	4/29/2005	N	NAA
10220701	Finlay, C. (2005) CDRW-D5: Acute	Company	7/29/2003	1.	1877
	Dermal Toxicity Study	E. I. du Pont de			
	in Rats. Project Number: 15656, 673,	Nemours and			4 4
46536902		Company	4/29/2005	N	N/A
	Stadler, J. (2005) CDRW-D5: Acute	E. I. du Pont de			
	Inhalation Toxicity, Project Number:	Nemours and			
46536903	DCSE/2005/016	Company	4/29/2005	N	N/A

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	Stadler, J. (2005) CDRW-D5: Acute Eye	E. I. du Pont de Nemours and	1		
46536904	Irritation - Data Waiver, Project Number: DCSE/2005/017.	Company	4/29/2005	N	N/A
10330904	Finlay, C. (2005) CDRW-D5: Acute	E. I. du Pont de	4/29/2003	18	INIZI
	Dermal Irritation Study in Rabbits, Project	Nemours and			
16536905	Number: 1008, 15656, 16935.	Company	4/29/2005	N	N/A
10330903	Hoban, D. (2005) CDRW-D5; Local	Company	4/29/2003	IN.	INTA
1		C. C. dy. Daniel de	1		
	Nymph Node Assay (LLNA) in Mice.	E. I. du Pont de			
14534004	Project Number: DUPONT/16729, 15656,	Nemours and	1/20/2025		3774
46536906	1234	Company	4/29/2005	N	N/A
	Tufano, T. (2005) Product Identity and	E. I. du Pont de			
	Composition of CDRW-D5, Project	Nemours and	Total State of the	21	
16536907	Number: DCSE/2005/011.	Company	4/29/2005	N	N/A
	Tufano, T. (2005) Enforcement Method to				
	Determine % Active Ingredient in	E. I. du Pont de			
	CDRW-D5. Project Number:	Nemours and			
46536908	DCSE/2005/13	Company	4/29/2005	N	N/A
	Sinning, D. (2005) Physical and Chemical				
	Characteristics of CDRW-D5: Physical				
	State, Oxidation/Reduction: Chemical				
	Incompatibility, pH and Bulk Density.				1
	Project Number: DUPONT/16895,	Case Consulting	1		
46536909	3820/02.	Laboratories, Inc.	4/29/2005	N	N/A
	E.I. du Pont de Nemours and Company.		1000		
	Inc. (2005) Submission of Product		1		
	Chemistry and Toxicity Data in Support	E. I. du Pont de			
	of the Application for Registration of	Nemours and			
46537000	CDRW- D1. Transmittal of 10 Studies.	Company	4/29/2005	N	N/A
40337000		Company	4/29/2003	IN	IN//A
	Finlay, C. (2005) CDRW-D1; Acute Oral				
11	Toxicity Study in Rodents • Up-and-	E. I. du Pont de			
	Down Procedure, Project Number:	Nemours and	1.00.00.00		1 2000
46537001	DUPONT/17269	Company	4/29/2005	N	N/A
	Finlay, C. (2005) CDRW-D1: Acute	E. I. du Pont de			1
	Dermal Toxicity Study in Rats. Project	Nemours and			1
46537002	Number: DUPONT/17158.	Company	4/29/2005	N	N/A
	Stadler, J. (2005) CDRW-D1: Acute	E. I. du Pont de			
	Inhalation Toxicity, Project Number:	Nemours and			
46537003	DCSE/2005/014.	Company	4/29/2005	N	N/A
	Stadler, J. (2005) CDRW-D1: Acute Eye	E. I. du Pont de			
	Irritation - Data Waiver, Project Number:	Nemours and			
46537004	DCSE/2005/015.	Company	4/29/2005	N	N/A
	Finlay, C. (2005) CDRW-D1: Acute	E. I. du Pont de			
	Dermal Irritation Study in Rabbits, Project	Nemours and			
46537005	Number DUPONT/16936	Company	4/29/2005	N	N/A
10221002	Hoban, D. (2005) CDRW-D1: Local	E. I. du Pont de	1/2//2005		
	Lymph Node Assay (LLN) in Mice.	Nemours and			
46537006	Project Number: DUPONT/16728.	The second secon	4/29/2005	N	N/A
40337000	Tufano, T. (2005) Product Identity and	Company E. L du Pont de	4/29/2003	IN	18//1
				7	1444
14535005	Composition of CDRW-D1, Project	Nemours and	COMPANS	N/	3114
46537007	Number: DCSE/2005/010.	Company	4/29/2005	N	N/A
	Tufano, T. (2005) Analytical Enforcement	0.1.1.0			3 F E
	Method to Determine % Active Ingredient	E. I. du Pont de			1
	in CDRW-D1. Project Number	Nemours and	99,000	100	
46537008	DCSE/2005/012, C0020/390/01/CW	Company	4/29/2005	N	N/A
	Simons, C. (2005) Method Validation of				
	'Analytical Enforcement Method to				
	Determine % Active Ingredient in				5 4 1
	Blended Products CDRW-5 and CDRW-				,
	1'. Project Number: DUPONT/16893.				1

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46537010	Sinning, D. (2005) Physical and Chemical Characteristics of CDRW-D1: Physical State, Oxidation/Reduction: Chemical Incompatibility, pH and Bulk Density: Final Report, Project Number: 3280/01, DUPONT/16896.	Case Consulting Laboratories, Inc.	4/29/2005	N	N/A
46546700	E.I. du Pont de Nemours and Co., Inc. (2005) Submission of Product Chemistry Data in Support of the Application for Registration of CDRW-D1. Transmittal of 1 Study	E. I. du Pont de Nemours and Company	5/16/2005	N	N/A
46546701	Lomax, N. (2005) CDRW-D1: Self Certification Statement for the Physical Chemical Properties. Project Number: DCSE/2005/020	E. I. du Pont de Nemours and Company	5/16/2005	N	N/A
46546800	E. I. du Pont de Nemours and Co. (2005) Submission of Product Chemistry Data in Support of the Application for Registration of CDRW-D5. Transmittal of 1 Study.	E. I. du Pont de Nemours and Company	5/16/2005	N	N/A
46546801	Lomax, N. (2005) CDRW-D5; Self Certification Statement for the Physical Chemical Properties, Project Number; DCSE/2005/021	E. I. du Pont de Nemours and Company	5/16/2005	N	N/A
46616100	E.I. du Pont de Nemours and Company (2005) Submission of Efficacy Data in Support of the Application for Registration of CDRW-D1. Transmittal of 1 Study.	E. I. du Pont de Nemours and Company	8/5/2005	N	N/A
46616101	Urtz, B. (2005) Antimicrobial Efficacy of Potassium Hydrogen Perxysulfate in Physical Blend Containing Sodium Dichloro-s-triazinetrione: (Escherischia coli, Enterococcus faccium). Project Number: DCSE/2005/025.	E. I. du Pont de Nemours and Company	8/5/2005	N	N/A
46617500	E.I. du Pont de Nemours and Company (2005) Submission of Product Chemistry Data in Support of the Registration of Virkon S. Transmittal of 3 Studies.	E. I. du Pont de Nemours and Company	8/8/2005	N	N/A
46617501	Sinning, D. (2005) 1126819: Enforcement Analytical Method: Final Report. Project Number: 3280/03.	Case Consulting Laboratories, Inc.	8/8/2005	N	N/A
46617502	Sinning, D. (2005) Physical and Chemical Characteristics of H26820: Oxidation/Reduction: Chemical Incompatibility, pH and Bulk Density: Final Report. Project Number: 3280/04.	Case Consulting Laboratories, Inc.	8/8/2005	N	N/A
46617503	McEntee, T. (2005) Certified Limits: EPA Reg. No. 71654-6.	E. I. du Pont de Nemours and Company	8/8/2005	N	N/A
46638600	E. I. duPont de Nemours and Company (2005) Submission of Product Chemistry Data in Support of the Application for Registration of Hyperox, Transmittal of 3 Studies.	E. I. du Pont de Nemours and Company	9/6/2005	N	N/A
46638601	Jones, T. (2005) Product Chemistry: Hyperox.	Delta Analytical Corp.	9/6/2005	N	N/A

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46638602	Sinning, D. (2005) Physical and Chemical Characteristics of Antec Hyperox: Oxidation/Reduction: Final Report. Project Number: 3250/01.	Case Consulting Laboratories, Inc.	9/6/2005	N	N/A
46638603	Squire, M. (2004) Antee Hyperox: Stability Trial in Sale Package.	Antec International Ltd.	9/6/2005	N	N/A
	E. I. du Pont de Nemours and Co., Inc. (2006) Submission of Toxicity Data in Support of the Registration of CDRW-D5.	E. I. du Pont de Nemours and			N/A
46767300	Transmittal of 1 Study. Stadler, J. (2006) CDRW-D5: Acute Inhalation Toxicity, Project Number:	E. I. du Pont de Nemours and	2/24/2006	N	
46767301	DCSE/2006/006 E. I. du Pont de Nemours and Co., Inc. (2006) Submission of Toxicity Data in Support of the Registration of CDRW-D1. Transmittal of 1 Study.	E. I. du Pont de Nemours and Company	2/24/2006	N N	N/A N/A
46767401	Stadler, J. (2006) CDRW-D1: Acute Inhalation Toxicity, Project Number: DCSF/2006/005	E. I. du Pont de Nemours and Company	2/24/2006	N	N/A
46808700	E.I. du Pont de Nemours and Company (2006) Submission of Efficacy Data in Support of the Amended Registration of Virkon. Transmittal of 2 Studies	E. I. du Pont de Nemours and Company	4/12/2006	N	N/A
46808701	Gutzmann, K. (2006) H-27069, H-27070, H-27071: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Virus: Avian Influenza (H3N2) Virus (Avian Reassortant): Final Report. Project Number: A03712, DCSE/2006/004, DUP01012606/ AFLU	ATS Labs	4/12/2006	N	N/A
46808702	Jeske, A. (2006) H-27069, 11-27070, H- 27071; AOAC Use-Dilution Method: Final Study Report, Project Number; DCSE/2006/003, DUP01012606/UD, A03653	ATS Labs	4/12/2006	N	N/A
46938400		E. I. du Pont de Nemours and Company	9/21/2006	N	N/A
46938401	Lighteap, E. (2006) Attrition Study and Particle Size Analysis for CDRW-D5. Project Number: DCSE/2006/012. Advantis Technologies, Inc.	Advantis Technologies, Inc.	9/21/2006	N	N/A
46943700		E. I. du Pont de Nemours and Company	9/29/2006	N	N/A
46943701		Case Consulting Laboratories, Inc.	9/29/2006	N	NgA .
46983500	E.I. duPont de Nemours and Company (2006) Submission of Efficacy Data in Support of the FIFRA 6(a)(2) Data Requirements for Virkon, Transmittal of 1 Study	E. I. du Pont de Nemours and Company	11/13/2006	N	NA NA

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46983501	Ruhme, J. (2006) 11-27071: Fungicidal Use-Dilution Method: Trichophyton mentagrophytes (ATCC 9533): 11-27071 (Lot 26594): Final Study Report. Project Number: DCSE/2006/021, A04310, DUP01090106/FUD.	ATS Labs	11/13/2006	N	N/A
47009500	E.I. du Pont de Nemours and Company (2006) Submission of Efficacy Data in Support of the Amended Registration of Hyperox. Transmittal of 2 Studies.	E, I, du Pont de Nemours and Company	12/15/2006	N	N/A
47009501	Miller, M. (2004) Virueidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Virus: Infectious Bursal Disease Virus: Antec Hyperox: BN 180 and BN 171: Final Study Report. Project Number: AN01011404/IBD, A02053.	ATS Labs	12/15/2006	N	N/A
17000E02	Ramm, K. (2003) Virueidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Virus: Avian Influenza A Reassortant: Antee Hyperox: BN 3801-1447 and BN 3909-1446; Final Study Report. Project Number:	AppTec Laboratory	12/15/2004	N	N/4
47009502 47033200	ANOIT11502/AFLU, A01249. E.I. du Pont de Nemours and Company (2007) Submission of Efficacy Data in Support of the FIFRA 6(a)(2) Data Requirements for Virkon S. Transmittal of 1 Study.	E. I. du Pont de Nemours and Company	12/15/2006	N N	N/A
47033200	Urtz, B. (2006) Effect of Virkon Aquatic on the Diatoms Skeletonema costatum and Chaetoceros gracilis. Project Number: EMSER/14/06, 4690.	E. J. du Pont de Nemours and Company	1/17/2007	N	N/A
47071800	E.I. Dupont De Nemours and Company (2007) Submission of Efficacy Data in Support of the FIFRA 6(a)(2) Data Requirements for Virkon, Transmittal of I Study.	E. I, du Pont de Nemours and Company	3/5/2007	N	N/A
47071801	Tester, J. (2007) H-27069, H-27070, and H-27071: Tuberculocidal Activity of Disinfectants: Final Report, Project Number: 473/119, DCSE/2007/002, 4656.	Microbio Test, Inc.	3/5/2007	N	N/A
47115100	Dupont Chemical Solutions Enterprise (2007) Submission of Environmental Fate Data in Support of the Registration of Virkon, Transmittal of 1 Study.	E. I. du Pont de Nemours and Company	4/26/2007	N	N/A
47115101	Powley, C.; Clements, R. (2007) Ion Chromatographic and Iodometric Titration Studies of Test Substance H- 26820, Project Number: DUPONT/22200.	Case Consulting Laboratories, Inc. and E. I. Du Pont De Nemours and Company	4/26/2007	N	N/A
47143400	Dupont Chemical Solutions Enterprise (2007) Submission of Toxicity Data in Support of the FIFRA 6(a)(2) Data Requirements for KMPS. Transmittal of I Study.	E. L. du Pont de Nemours and Company	5/31/2007	N	N/A
47143401	Hicks, S. (2007) KMPS: Early Life-Stage Toxicity Test with the Sheepshead Minnow, Cyprinodon variegatus, Under Flow Through Conditions, Project Number: 61459, 215, DUPONT/21116.	ABC Laboratories.	5/31/2007	N	N/A

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47874700	E.I. Dupont de Nemours and Company (2009) Submission of Efficacy Data in Support of the Amended Registration of	E. I. du Pont de Nemours and	10/1/2000		
47674700	Virkon. Transmittal of 1 Study Miller, M. (2009) 11-29310 and H-29311: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Virus: Swine Influenza A (H1N1) Virus: Final Study Report, Project Number: DCSE/2009/015, A08125.	Company	10/1/2009	N	N/A
47874701	DUP01072109/SFLU.	ATS Labs	10/1/2009	N	N/A
49156700	E.I. Dupont De Nemours and Company (2013) Submission of Efficacy data in support of the FIFRA 6a2 Data Requirements for Virkon S and Virkon. Transmittal of 1 study.	E. I. du Pont de Nemours and Company	6/14/2013	N	N/A
	McEntee, T. (2013) Bioassay of Virkon S virucidal disinfectant: Dunaticlla tertiolecta Population Inhibition 96 Hours: Perumytilus purpuratus (maico mussels) Mortality 144 Hours: Perumytilus purpuratus (mussels maico) Fixation 144 Hours. Project Number: LB/BIOE/R/05/498, LB/BIOE/R/05/499.	University of			
49156701	LB/BIOE/R/05/500.	Concepion	6/14/2013	N	N/A
49386101	E. I. du Pont de Nemours and Company (2014) Submission of Efficacy, Product Chemistry, and Toxicity Data in Support of the Application for Registration of Virkon LSP Multipurpose Broad Spectrum Disinfectant. Transmittal of 14 Studies.	E. J. du Pont de Nemours and Company	6/2/2014	×	N/A
49386101	McCall, Y, (2011) DuPont FarmFluid HD ROW - Corrosion Testing, Project Number: DUPONT/ESLYMMFFHDROW/CT,	E. I. do Pont de Nemours and Company	6/2/2014	N	N/A
49386102	McCall, Y.; Wilkins, K. (2010) FarmFluid HD ROW - Method Validation, Project Number: 2010/DF/F/C/D. Miller, M. (2008) 11-28668 and 11-28669;	E. I. du Pont de Nemours and Company	6/2/2014	N	N/A
49386103	Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces - Newcastle disease virus - Final Report. Project Number: DCSE/2008/008, A06560, DESE/2008/006.	ATS LABS	6/2/2014	N	N/A
49386104	E.L. duPont de Nemours and Company (2014) Summary of Physical and Chemical Characteristics of Formulations.	E. I. du Pont de Nemours and Company	6/2/2014	N	N/A 1 4 1
49386105	Farley, T. (2009) H-29152 and H-29153: Use Dilution Test - Aspergillus niger - Final Report, Project Number: DSCE/2009/008, 473/131.	MicroBioTest, Inc	6/2/2014	N	N/A
49386106	Bashir, M. (2009) H-29152 and H-29153: Use Dilution Test - Candida albicans - Final Report. Project Number: DCSE/2009/009, 473/132	MicroBioTest, Inc	6/2/2014	N	NA .
49386107	Farley, T. (2009) 11-29152 and 11-29153: Use Dilution Test - Trichophyton mentagrophytes - Final Report, Project Number: DCSE/2009/007, 473/130	MicroBioTest, Inc	6/2/2014	Ņ	N/A

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49386108	Miller, M. (2009) H-29152 and H-29153: Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces • Virus: Avian Influenza A (H3N2) virus (Avian Reassortant) - Final Report. Project Number: DCSE/2009/014, A08127, DUP01042709/AFLU.	ATS LABS	6/2/2014	N	N/A
49386109	Dormstetter, K. (2008) H-28668, H-28669 and H-28581: AOAC Use Dilution Test - Healthcare - Final Report, Project Number: 473/129, DCSE/2008/005	MieroBioTest, Inc	6/2/2014	N	N/A
49386110	Ruhme, J. (2009) 11-29152 and 11-29153: AOAC Use-Dilution Method - Escherichia coli O157:H7 (ATCC 35150) - Final Report, Project Number: A07858, DCSE/2009/002, DUO01060909/UD.	ATS LABS	6/2/2014	N	N/A
49386111	Miller, M. (2009) H-29152 and H-29153; Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces - Virus: Swin Influenza A (H1N1) Virus - Final Report. Project Number: A08207, DCSE/2009/016 DUP01081709/SFLU	ATS LABS	6/2/2014	N	N/A
49386112	McEntee, T. (2014) Virkon LSP Broad Spectrum Disinfectant Bridging and Waiver Request.; Acute Oral Toxicity, Acute Dermal Toxicity, Acute Inhalation Toxicity, Eye Irritation, Skin Sensitization and Skin Irritation. May 1, 2014	E. I. du Pont de Nemours and Company	6/2/201-1	N	N/A
49386113	McCall, Y. (2009) DuPont Farm Fluid 11D Row - Stability Study, Project Number: DUPONT/ESLYMM10509FFHDROW	E. J. du Pont de Nemours and Company	6/2/2014	N	N/A
49386114	McEntee, T. (2014) Virkon LSP Broad Spectrum Disinfectant - Description of Formulation Process	E. I. du Pont de Nemours and Company	6/2/2014	N	N/A
49403700	E.I. DuPont de Nemours and Company (2014) Submission of Toxicity Study in Support of the Application for Registration of VIRKON(R) LSP Multipurpose Broad Spectrum Disinfectant.	F. I. du Pont de Nemours and Company	6/11/2014	N	N/A
49403701	H-28669: Corrositex® In Vitro Test; October 20, 2008; Carpenter, Carol, E. I. du Pont de Nemours and Company.	E. I. du Pont de Nemours and Company	6/11/2014	N	N/A
49743100	The Chemours Company FC, LLC (2015) Submission of Efficacy and Product Chemistry Data in Support of the Application for Registration of Virkon LSP Multipurpose Farm Disinfectant, Transmittal of 11 Studies	The Chemours Company FC, LLC.	10/16/2015	N	N/A
49743101	Miller, M. (2009) H-29152 and H-29153: Virueidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces. Virus: Porcine Respiratroy and Reproductive Syndrome Virus Project Number: DCSE/2009/013, A08128	ATS LABS	10/16/2015	N	N/A

Page 11 of 12

49743102	Conway, S. (2011) H29845 & H29846 Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces, Virus: Infectious Bursal Disease, Project Number: DC&F-2010- 001, A10225	ATS LABS	10/16/2015	N	N/A
49743103	Miller, M. (2014) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Avian Influenza A (H5N1) Virus: Project Number DC&F-2014-002, A17443	ATS LABŠ	10/16/2015	N	N/A
49743104	Miller, M. (2014) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Avian Influenza A (II5N1) Virus: Project Number DC&F- 2014-003, A17444	ATS LABS	10/16/2015	N	N/A
49743105	Upadhyaya, Ritu (2014) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Newcastle Disease Virus; Project Number: DC&F-2014-006, A17449	ATS LABS	10/16/2015	N	N/A
49743106	Upadhyaya, R. (2014) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Porcine Epidemic Diarrhea Virus; Project Number: DC&F-2014-005, A17450	ATS LABS	10/16/2015	N	N/A
49743107	Upadhyaya, R. (2014) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Porcine Respiratory and Reproductive Syndrome Virus. Project Number: DC&F-2014-004, A17451	ATS LABS	10/16/2015	N	N/A
49743108	Upadhyaya, R. (2014) Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces: Infectious Bursal Disease Virus: Project Number DC&F- 2014-008, A17455	ATS LABS	10/16/2015	Z	N/A
49743109	Chen, Z. (2015) VIRUCIDAL HARD- SURFACE EFFICACY TEST - Infectious Bursal Disease Virus (Gumboro Disease Virus) (20 MINUTE TEST); Project Number: DC&F-2015-001, 473-135	MicroBio Test, Inc	10/16/2015	N	N/A
49743110		MicroBio Test, Inc	10/16/2015	N	N/A
49743111	Baldassarc, E. (2015) Virkon LSP Multipurpose Farm Disinfectant- Description of Formulation Process	The Chemours Company FC, LLC	10/16/2015	N	N/A 4 5



UNITED 1. ATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 1, 2015

Ellen M. Baldassare The Chemours Company 1007 Market Street P.O. Box 2047 Wilmington, DE 19899

Subject: Notification per PRN 98-10 – Minor label changes

Product Name: Virkon S

EPA Registration Number: 71654-6 Application Date: November 6, 2015

Decision Number: 511389

Dear Ms. Baldassare:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

If you have any questions, you may contact Stacey Grigsby at 703.305.6440 or via email at grigsby.stacey@epa.gov.

Sincerely,

Stacey Grigsby Risk Manager

Regulatory Management Branch II Antimicrobials Division (7510P)

5.	976836	Milestone Linail: E	llen.baldassare@	chemours.com				
Regulatory Type:	Product Registration	n - Section 3		Resubmission	:_ () Yes	● No	Print Lett	er
Application Type:	Notification			Fee For Service	: O Yes	O No	Enter More Info	rmation
							Tracking)
Company:	71654 THE CHEN	MOURS COMPANY	FC, LLC	V				
Risk Manager:	Antimicrobials Divisi	ion, Risk Manager	nent Team 34		-	1		
Product #:	71654-6 Pro	oduct Name: VIRK	CONS					
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332 3.hgolf

DOCUMENTUM



November 6, 2015

The Chemours Company Chemical Solutions 1007 Market Street PO Box 2047 Wilmington, DE 19899

302-773-1000 t chemours.com

US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Hardy (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501

Reference: Virkon S; EPA Registration No. 71654-6

Dear Ms. Hardy,

Please consider this letter and the included documentation a notification to make updates to the label consistent with PRN 98-10 to the Master label for EPA 71654-6.

Minor adjustments requested by this update are detailed below:

- Addition of new symbols to label
- Revision of ® symbol to ™ symbol for Virkon™ trademark
- Revision of Registrant Address and contact phone numbers
- > Revision of copyright statement

All updates are highlighted on one copy of the label. Enclosed in support of this action are the following:

- Application for Pesticide Registration (EPA form 8570-1)—Dated 11/6/15
- Two copies of the requested label changes, with one copy highlighted to outline changes.

Thank you for your assistance with this matter. Please feel free to contact me at 302.773.4569 or email me at Ellen.Baldassare@chemours.com if you have any questions.

Ellen M. Baldassare

Product Registration Manager

302-773-4569

Ellen.Baldassare@chemours.com

Enclosures

DOCUMENTUM

Please read instructions on	reverse before com	.ng form.			Form Appro	oveď.	3 No. 2	070-0060	Print Form
\$EPA	United States Environmental Protection Ages Washington, DC 20460			псу		×	Registr Amend Other	ation	OPP Identifier Number
		Application	on for i	esticio	le - Sect	tion	l I		· L ·· · · · · · · · · · · · · · · · ·
1. Company/Product Number 71654-6	or				roduct Mani line Hardy			3. Pr	oposed Classification
4. Company/Product (Name Virkon S)			PM ≢ Team	34		_	٦Ľ	None Restricted
5. Name and Address of Applicant (Include ZIP Code) The Chemours Company FC, LLC 1007 Market Street Address of Applicant (Include ZIP Code) Check if this is a new address				(b)(i), m to: EPA R	y product i	s sim	ilar or iden	tical in co	FIFRA Section 3(c)(3) mposition and labeling
		· · · · · · · · · · · · · · · · · · ·	Sec	tion - I					<u> </u>
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.				- 🗆	Final printed Agency lett "Me Too" A Other - Expl	er date Applica	ed etion.	ee to	
Explanation: Use edditional page(s) If necessary. (For section I and Section II.) Minor corrections to Trademark and addition of symbols "This notification is consistent with the provisions of PR notice 98-10 and EPA regulations at 40 CFR 152.48, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA."						at to EPA. I further understand			
			Sect	ion - II	<u> </u>	_	_		<u> </u>
1, Material This Product W	il Be Packaged in:	· <u>"</u>			<u> </u>				
Child-Resistant Packaging Yes* X No Certification must be submitted	Unit Packaging Yes X No If "Yes" Unit Packaging wgt.	No. per cantainer	Water X If "Yes Package		No. per container	,	2. Type of	Container Metal Plastic Glass Paper Other (S	
3. Location of Net Contents	Information	4. Size(s) Re	<u> </u>	ner .	! 	5 Loc	ation of La	hal Diractic	ung
⊠ Label	Conteiner	10lb, 9oz, 3				X	On Labe	d	panying product
6. Manner in Which Label is	Affixed to Product	X Lithog Paper Stend	reph glued iled	_	Other				
, ,,	<u> </u>			ion - I\					
1. Contact Point Complete	items directly below f	or identification	on of indivi	dual to be	contacted,	if nece	ssary, to p	rocess this	application.)
Name Ellen M. Baldassare			lette to the state of the state			Telephon 302-773	No. (Include Area Code) 1-4569		
I certify that the state I soknowledge that a both under applicable	oments I have made on ny knowingly false or n law.	Certifica this form and nisleading sta	all attach	ments the y be punis	reto ere true hable by find	, accu e ar in	rate and co oprisonment	mplate.	6. Date Application Received (Stamped)
2. Signature	<u> </u>		3. Title Product Registration Manager						
4. Typed Name Ellen M. Baldassare	_ 10		5. Date			<u>-</u>	loci	iwer	
anon im buildassare				ber 6, 20	15	1.0	n 110, 120, 150	> ក្រុម មួយ មួយ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។ ។	H D XX BUB

PROCESSING REQUEST

Reg # 71654-6	Decision # 500318
Description: Duplicate	Request under D: 498455
Material Available	Electronically (see PPLS):
☐ Electronic Label/Letter I	Dated
Other:	
Material Sent (see jack	ket):
☐ Stamped Label/Letter D	ated
Notification Dated	
☐ New CSF(s) Dated	
Other: Duplicate Reque	st under D: 498455
and clipped together, NOT STAPL materials to staff in the Informati jacket is full or only available as	materials in the jacket. It must be well organized ED. Then give the jacket with the coversheet and ion Services Center (ISC) (Room S-4900). If a an image, please file materials in a new jacket and urther information please call 703-605-0716.
Reviewer: Lorena Rivas	
Division: AD	
Phone: 305-5027	Date: 3/18/2015

February 10, 2015

Document Processing Desk Ms. Jacqueline Campbell (7504P) US Environmental Protection Agency Office of Pesticide Programs 2777 South Crystal Drive Arlington, VA 22202

Reference: VIRKON® S: EPA Registration No. 71654-6 --- Notification

Dear Ms. Campbell,

The purpose of this notification is to update the MASTER LABEL in order to reflect the new company name & address, revise the Alternate Brand Names (ABN) and to correct the respirator statement to be consistent with PR Notice 98-8.

Current Alternate Brand Name	Amended Name
DUPONT™ VIRKON® VC DISINFECTANT AND VIRUCIDE FOR VETERINARY USE	VIRKON® VC DISINFECTANT AND VIRUCIDE FOR VETERINARY USE
DUPONT™ TRIFECTANT® BROAD SPECTRUM DISINFECTANT	TRIFECTANT® BROAD SPECTRUM DISINFECTANT
DUPONT™ VIRKON® AQUATIC DISINFECTANT AND VIRUCIDE	VIRKON® AQUATIC DISINFECTANT AND VIRUCIDE
DUPONT™ VIRKON® S DISINFECTANT AND VIRUCIDE	VIRKON® S DISINFECTANT AND VIRUCIDE

CURRENT STATEMENT	REVISED STATEMENT
Note: Individuals must avoid entering the	Note: Individuals must avoid entering the
building or room during fogging. If the	building or room during fogging. If the
building or room must be entered, then	building or room must be entered, then
individuals entering must wear a self-contained	individuals entering must wear a
respirator approved by NIOSH/MSHA,	NIOSH/MSHA approve respirator, plus
goggles, long shirt sleeves, and pants	goggles, long sleeve shirts and pants.

Should you have any questions, please feel free to call or e- mail. Thank you for your attention to our application.

Sincerely,

Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@chemours.com

V- Brust in Ala

(978) 312 1160

(978) 335 8055 MOBILE

Please read instructions on reverse before completing form.			Form Approved, OMB No. 2070-0060, Approval expires 05-31-9				-0060, Approval expires 05-31-98
O EDA	U	nited States			Regist	ration	OPP Identifier Number
EPA Env	ironment	tal Protectio	n Agenc	y 🗀	Amend		
	Washi	ngton, DC 204	16 0	\Box	Other:		
		Applicati	on for Pe	sticide -		n I	
1, Company/Product Number			2. EPA	Product Mai	nager		Proposed Classification
71654 - 6				line Camp	bell		
4. Company/Product (Name) Virken® S				'eam 34			None Restricted
	5. Name and Address of Applicant (Include ZIP Code) THE CHEMOURS COMPANY FC, LLC						vith FIFRA Section 3(c)(3)
1007 MARKET STREET			(D)(I), I to:	тту рғоаца	t is simila	ar or identical	n composition and labeling
WILMINGTON, DE 19898				eg. No			
ATTN: Thomas C. McEntee				_			
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			Section	on - II			
Amendment – Explain below.							Agency letter dated
Resubmission in response to A Notification - Explain below.	gency letter	dated			Foo" Applica		
X Notification - Explain below. Explanation: Use additiona	I naga(a) ii	Fnaannani	/Eas Coat		er - Explain		
Current Alternate B		necessary.	(For Sect	ion I and S		.) ed Name	
DUPONT™ VIRKON® VC DISINF		D VIRUCIDE	VIRKON®	VC DISINFE		ID VIRUCIDE FO	R VETERINARY
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DUPONT™ VIRKON® AQUATIC D						NT AND VIRUCI	DE
DUPONT™ VIRKON® S DISINFEC	CTANT AND	VIRUCIDE	VIRKON®	S DISINFE	CTANT AND	O VIRUCIDE	
"This notification is consistent with the pre confidential statement of formula of this p	ovisions of PR	Cnotice 98-10 and	l FPA regulati	ions at 40 CFI	R 152.46, an	d no other changes	have been made to the labeling or the
understand that if this notification is not co	insistent with	the terms of PR 1	Violation of 1- lotice 98–10 a	8 U.S.C. Sec. nd 40 CFR 15	1001 to will 52.46, this pr	runy make any rais oduct may be in vic	dation of FIFRA and I may be subject
to enforcement action and penalties under	section 12 and	l 14 of FIFRA."		_			
			Section	on - III			
Material This Product Will Be Parent Country							
Child-Resistant Packaging Yes*	Unit Pac	ckaging Yes		I —	oluble Paci	kaging	2. Type of Container
No Yes				Ye:			Metal / Plastic
	If "Yes"	,	No. per	If "Yes"		No. per	
*Certification must	Unit Pad	ckaging wgt.	container	Package	e wgt.	container	Glass
be submitted	5 gram	•	50	37 grai	n	50	Paper
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	tainer		l, 5 gram ta		ıram	On Labe	
	ion (o)	sachet	, - <u>J</u>		,		ing accompanying product
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* *			Section				1=1=1=1
1. Contact Point (Complete items di	rectly below.	for identification	of individual	to be contac	cted, if nece	essary, to process	this application), , , *
Name		Titl	_			-	Telephone Nę (Include Area Code)
Thomas C. McEntee Regi				Manager			(97\$) 335-8055
		Certificati					6. Date Application
Locatily that the statements I have π	ade on this	form and all atta	chments the	reto are true	, accurate a	and complete. I	Received
acknowledge shat any knowlngly fall under applicable low.	se or misieac	ang statement r	nay be punis	nable by fine	or impriso	nment of both	(Stamped)
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18 40000	12 -2	rt. C. y					
4. Typed Name			5. Date				
Thomas C. McEnton			Fobruary	12 2015			

TRANSMITTAL DOCUMENT

Attention:

Mr. Jacqueline Campbell Antimicrobials Division (7510P) US Environmental Protection Agency Office of Pesticide Programs 2777 South Crystal Drive Arlington, VA 22202-4501

NAME AND ADDRESS OF SUBMITTER

The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19898

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED-

MASTER LABEL

Virkon® S; EPA Registration No. 71654 - 6

Transmittal Date: February 13, 2015

Transmittal Material:

** 1 1	
Volume 1	Administrative Materials
v Orunio 1	Administrative materials

Cover Letter 1 page
Application for Pesticide Registration (EPA Form 8570-1) 1 page
Transmittal Document this page
071654-00006,20150213. Virkon S.MASTER LABEL 1 CD

There is an **ELECTRONIC LABEL** for this action

You can use Acrobat to compare the e-label to the previous version (and find the changes). You can also use Acrobat to mark-up the e-label with your comments.

If e-label was submitted via

CD-ROM with paper application

then you will find e-label in

Electronic Label Library

If the e-label is not found in the ELL then it was probably not named correctly end could not be entered into the ELL. However, the file can be retrieved from the CD which is retained by the Front End.

or

If e-label was submitted via

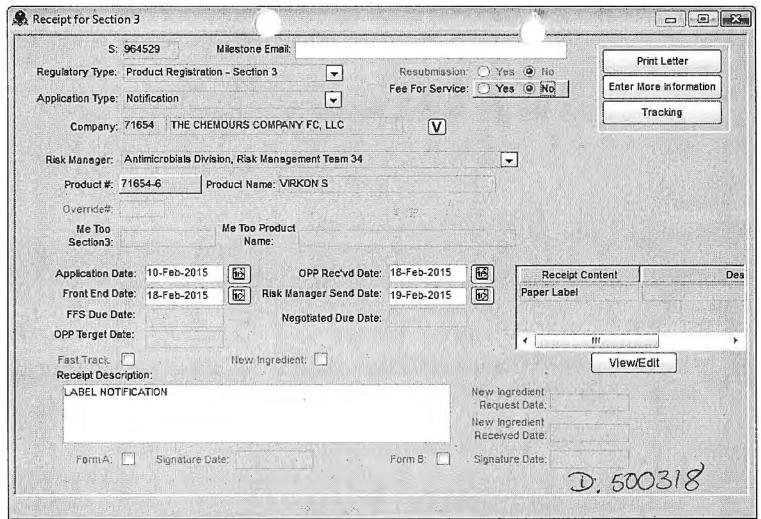
XML E-Submission (no paper)

then you will find e-label in

Documentum

See overview of processing e-labels on other side of this sheet. If you have any questions on e-labels, please contact one of your division e-label experts:

AD	Willie Abney	308-1689
	Renae Whitaker	308-7003
	Tracy Lantz	308-6415
BPPD		
RD	Tom Harris	308-9423



Notification

Registrant appolating address on label,

add new alternate brand names, a

update respector stort.

382 L Rivas

PROCESSING REQUEST

Reg #: 71654-6	Decision #: 498455
Description: Revised La	abel Amendment
Material Available	Electronically (see PPLS):
Electronic Label/Letter	Dated: 3/12/2015
Other:	
Material Sent (see jack	xet):
Stamped Label/Letter D	Pated: 3/12/2015
Notification Dated:	
☐ New CSF(s) Dated:	
Other:	
and clipped together, NOT STAPL materials to staff in the Informat jacket is full or only available as	materials in the jacket. It must be well organized .ED. Then give the jacket with the coversheet and ion Services Center (ISC) (Room S-4900). If a an image, please file materials in a new jacket and urther information please call 703-605-0716.
Reviewer: Lorena Rivas	
Division: AD	
Phone: 305-5027	Date: 3/12/2015



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

March 12, 2015

Thomas C. McEntee Registration Manager The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19898

Subject: Label Amendment – Adding four Alternate Brand Names to the Master label

VIRKON® VC Disinfectant And Virucide For Veterinary ANTEC™ TRIFECTANT® Broad Spectrum Disinfectant

VIRKON® Aquatic Disinfectant And Virucide

VIRKON® S Disinfectant And Virucide

Plus; revising under the DIRECTIONS FOR USE "Fogging (wet misting) Instructions on Page 7, minor language revisions to the NOTE paragraph.

Product Name: VIRKON S

EPA Registration Number: 71654-6 Application Date: November 25, 2014

Decision Number: 498455

Dear Mr. McEntee:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration

Page 2 of 2 EPA Reg. No. 71654-6 Decision No. 498455

process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Lorena Rivas by phone at 703-305-5027 number, or via email at rivas.lorena@epa.gov.

Sincerely,

for

Jacqueline Hardy, Product Manager 34 Regulatory Management Branch II Antimicrobials Division (7510P) Office of Pesticide Programs

Enclosure: Stamped Label

Note to reviewer – Content in brackets [] is OPTIONAL

Virkon® S

Disinfectant and Virucide

[Virkon® VC disinfectant and virucide for veterinary use - ABN]

[trifectant® broad spectrum disinfectant – ABN]

[Virkon® Aquatic disinfectant and Virucide – ABN]

[Virkon® S disinfectant and cleaner – ABN]

[BROAD SPECTRUM DISINIFECTANT,][FUNGICIDE] [& ALGAECIDE]

[Fragrance Free] [Reduced Dye] [Fragrance and Dye Free]

For Use in Cleaning and Disinfecting Industrial, Animal and Agricultural Facilities

[For Use in Emergency Disease Control]

Effective against

Viruses*

Including Canine Parvovirus*

Bacteria

Fungi

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate 21.41% Sodium Chloride 1.50% OTHER INGREDIENTS 77.09% TOTAL 100.00%

Equivalent to 9.75% Available Chlorine

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

[See Inside Booklet for Additional Precautions]

[See leaflet for additional directions for use [and * explanatory notes.]]

EPA Reg. No. 71654-6

EPA Est. No. XXXXX-YY-ZZZ

<Lot or batch #>

[POWDER FORM]

[TABLET FORM]

[SACHET FORM]

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ACCEPTED

03/12/2015

Under the Federal Insectander Fungleide and Rodenheide Act as amended for the pesticide registered under EPA Reg. No. _______

^{*} 71654-6

Front Panel Continued

minutes. Remove contact lenses, i rinsing eye. Call a Poison Control Ce advice. If on Skin or Clothing: Take off contaminated of Rinse skin immediately was a second contaminated of the	slowly and gently with water for 15-20 f present, after 5 minutes, then continue nter or doctor for further treatment othing.
Rinse skin immediately v	othing.
Call a Poison Control Ce advice.	vith plenty of water for 15-20 minutes. nter or doctor for further treatment
advice. Have person sip a glass of Do not induce vomiting to center or doctor	onter or doctor immediately for treatment of water if able to swallow. Simpless told to do so by the poison control mouth to an unconscious person

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas). Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured for: The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19898

Questions? Call 1-800-441-7515

Outside the US, contact: 1-302-774-1000

US Patent No. 4822512

EFFECTIVE AGAINST THE FOLLOWING [PATHOGEN]:

[ANIMAL AND ZOONOTIC PATHOGENS]

BACTERIA

[Actinobacillus pleuropneumoniae]

[Bacillus cereus]

[Brucella abortus]

[Campylobacter jejuni]

[Clostridium perfringens]

[Dermatophilus congolensis]

[Escherichia coli]

[Klebsiella pneumoniae]

[Mycoplasma gallisepticum]

[Mycoplasma hyopneumonia]

[Pasteurella multocida]

Pseudomonas aeruginosa

Salmonella enterica

Salmonella typhimurium

[Shigella sonnei]

[Staphylococcus aureus

[Staphylococcus epidermidis]

[Streptococcus pyogenes]

[Streptococcus suis]

[Not approved in California for use against the following bacteria]

[Bordetella avium]

[Bordetella bronchiseptica]

[Fistulous withers (Poll Evil)]

[Haemophilus somnus]

[Helicobacter pylori]

[Leptospira canicola]

[Listeria monocytogenes]

[Moraxella bovis (Pink Eye)]

[Mycoplasma mycoides]

[Pseudomonas mallei (Glanders)]

[Pseudomonas vulgaris]

[Streptococcus equi (Strangles)]

[Taylorella equigenitalis]

[Treponema hyodysenteriae]

VIRUSES*

Avian Influenza Virus

[Avian Laryngotracheitis Virus]

[Bovine Adenovirus Type 4]

[Canine Adenovirus (Canine Hepatitis)]

[Canine Parvovirus]

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[Equine Herpes Virus (Type 1)] [Equine Herpes Virus (Type 3)] [Equine Influenza Virus (Type A)] [Feline Calicivirus] [Feline Panleukopenia Virus] [Feline Rhinotracheitis Virus] [Foot and Mouth Disease Virus] [Newcastle Disease Virus] [Simian virus (SV40 Virus)] [Not approved in California for use against the following viruses*:] [Adenovirus Pneumonia] [African Horse Sickness Virus] [African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water)] [Bovine Polyoma Virus] [Bovine Pseudocowpox Virus] [Bovine Viral Diarrhea Virus (no hard water)] [Calf Rotavirus (no hard water)] [Canine Coronavirus] [Canine Parainfluenza Virus] [Chicken Anemia Virus] [Coital Exantherma Virus] [Distemper Virus] [Duck Adenovirus (no hard water)] [Duck Enteritis Virus] [Egg Drop Syndrome Adenovirus] [Equine Infectious Anemia Virus (Swamp Fever)] [Equine Arteritis Virus (no hard water)] [Equine Contagious Abortion Virus] [Equine Papillomatosis Virus] [Equine Influenza Virus (The Cough)] [Feline Herpes Virus] [Feline Infectious Peritonitis Virus] [Feline Parvovirus] [Hog Cholera Virus] [Infectious Bronchitis Virus] [Infectious Bursal Disease Virus] [Infectious Canine Hepatitis Virus] [Infectious Pancreatic Necrosis Virus] [Infectious Salmon Anaemia Virus] [Infective Bovine Rhinotracheitis Virus (no hard water)] [Leptospira Canicola Virus] [Maedi- Visna Virus] [Marek's Disease Virus] [Mouse Parvovirus] [PCV2 Virus (PMWS)] [Porcine Epidemic Diarrhea Virus] [Porcine Parvovirus] [Porcine Reproductive and Respiratory Syndrome Virus (PRRS)]

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[Pseudorabies Virus (Aujesky's Disease) (no hard water)]

[Rotaviral Diarrhea Virus]

[Snakehead rhabdovirus]

[Swine Influenza Virus]

[Swine Vesicular Disease Virus]

[Transmissible Gastroenteritis Virus (TGE) (no hard water)]

[Turkey Herpes Virus (no hard water)]

[Turkey Rhinotracheitis Virus]

[Vesicular Stomatitis Virus]

[FUNGI]

[Trichophyton mentagrophytes (2%)]

[Not approved in California for use against the following fungi:]

[Aspergillus fumigatus]

[Fusarium moniliforme]

[Microsporum canis]

[Trichophyton spp. (Ringworm)]

[Trichophyton spp. (Mud Fever)]

[PLANT PATHOGENS]

[Not approved in California for use against plant pathogens]

[Alternaria solani]

[Botrytis cinera]

[Colletotrichum coccodes]

[Didymella bryoniae]

[Fusarium oxysporum]

[Fusarium solani]

[Penicillium oxalicum]

[Phomopsis sclerotioides]

[Pyrenochaeta lycoopersici]

[Pythium aphanidermatium]

[Rhizoctonia solani]

[Sclerotinia sclerotiorum]

[Thielaviopsis basicola]

[Verticillium dahliae]

[Xanthomonas axonopodis]

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

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ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT

Virkon® S is effective against numerous microorganisms affecting animals: viruses*, gram positive and gram negative bacteria, fungi (molds and yeasts – Not Approved for this use in California), and mycoplasma. Efficacy of the 1% solution against bacteria and viruses* was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hard water," "no soil load," and "use 2% solution."

[Respiratory illnesses attributable to Pandemic 2009 H1N1are caused by influenza A virus. Virkon® S [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses* including Pandemic 2009 H1N1 (formerly called swine flu).]

[This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus*.]

[This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses* including Pandemic 2009 H1N1 (formerly called swine flu).]

[Kills Pandemic 2009 H1N1 influenza A virus* (formerly called swine flu).]

[Kills Pandemic 2009 H1N1 influenza A virus*.]

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

GENERAL INSTRUCTIONS—POULTRY AND FARM PREMISES

- 1. Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- 2. Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the use-diluted disinfecting solution for a period of 10 minutes.
- 6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- 7. Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 8. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

[Fogging (Wet Misting) Instructions -

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon® S dilution of 0.5% to 2.0% in water (1:200 to 1:50) - (refer to specific directions for Poultry, Swine, Bovine, Greenhouse and Aquaculture uses.).

Apply use-diluted solution at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a NIOSH/MSHA approved respirator, plus goggles, long sleeve shirts and pants.]

Virkon® S DILUTION CHART

To achieve the appropriate use-diluted Virkon® S concentration, fill container with the volume of water and quantity of powder or tablet(s) found in the following table. [For a 1% solution, add one (1) tablet to one pint of water.] [For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water.] .

Powder

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Quart	0.15 ounces	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces	1.3 ounces	2.7 ounces
10 Gallons	6.7 ounces	13.4 ounces	26.7 ounces
50 Gallons	33.4 ounces	66.8 ounces	133.5 ounces

Measuring cup provided.

Tablet

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 Pint		1 tablet	2 tablets
1 Quart	1 tablet	2 tablets	4 tablets
1 Gallon	4 tablets	8 tablets	16 tablets

Sachet

Quantity of Water	0.5% Solution††	1% Solution	2% Solution
1 gallon	-	1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

^{††} The 0.5% solution currently is not approved for use in California.

Solutions are stable for 7 days. Do not soak metal objects in Virkon® S for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. [This powder formulation is easily diluted for use in manual or machine operations.]

[POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis virus and Avian Influenza virus; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease virus, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts – Not Approved for this use in California) Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.]

[HATCHERIES: Virkon® S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[Fogging (Wet Misting) Instructions – Poultry and Ratite Production

Follow General Instructions to remove poultry and/or animals from room to be treated.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon® S at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a NIOSH/MSHA approved respirator, plus goggles, long sleeve shirts and pants.]

[BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon® S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon® S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.]

[PROCESSING PLANTS: Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.]

[SWINE PRODUCTION].

[CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Foot and Mouth Disease virus, Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza virus, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies virus, Rotoviral Diarrhea virus, African Swine Fever virus, Fungi of Fusarium moniliforme, and Bacteria of Treponema hyodysenteriae.]

[Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon® S for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[Fogging (Wet Misting) --- Swine

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)].

[EQUINE PRODUCTION] [BROAD SPECTRUM EQUINE DISINFECTANT/DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT]

[CONTROLS: Viruses of Equine herpes Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Staphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme, Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).]

[APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[To Clean Blankets, Saddle Pads and Rugs: *Not an approved use in California*: Using a 1% solution of Virkon® S, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.]

[BOVINE PRODUCTION].

[CONTROLS: Bovine Adenovirus Type 4, Foot and Mouth Disease virus; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, and Bacteria of Haemophilus somnus.].

[Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon® S to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.].

[Fogging (Wet Misting) --- Bovine

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)].

[COMPANION ANIMALS]

[CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.].

[APPLICATIONS: Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure (Remove gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages [caging systems]within or [associated with]Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon® S for long periods - 10 minutes is maximum contact time.]

[GREENHOUSES AND HORTICULTURE].

[Virkon® S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.]

[For surfaces and equipment

- 1) Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2) Use a dilution of 1:100 or 1.3 oz. Virkon® S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3) Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.

- 4) Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5) Reapply as often as needed for control.

For clean non-porous surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon® S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon® S per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.]

[For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon® S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon® S for every gallon of cooler water.]

[Virkon® S may also be used to disinfect irrigation tanks and lines. Not approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.]

[Fogging (Wet Misting) Instructions - Greenhouse/Horticulture

[Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)].

[AQUACULTURE].

[Not approved for this use in California].

[Virkon® S is intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon® S may also be used in foot dips. Virkon® S must not be applied directly to water.]

[Equipment used in separate sites, tanks, ponds in aquaculture settings must be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon® S solution followed by a water rinse.]

[Fogging (Wet Misting) Instructions -- Aquaculture

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers

according to manufacturer's use directions. Rinse foggers and sprayers with water following use. Refer to Fogging (Wet Misting instructions)].

[EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)].

[Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including; Newcastle Disease Virus, Foot and Mouth Disease Virus, African Horse Sickness Virus†, Vesicular Stomatitis Virus†, Classical Swine Fever Virus†, (Hog Cholera virus†), African Swine Fever Virus†, Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus†, and Mycoplasma mycoides† (Contagious Bovine Pleuropneumonia†). †Not approved for this use in California.]

[Use a 1% solution of Virkon® S to clean and disinfect agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harboring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers).

Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon® S for long periods - 10 minutes is maximum contact time.]

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS*

Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon® S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rates specified below. If the threat is known and limited to one of the organism below, Virkon® S may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gallon	
PCV2 virus* (PMWS)	1:200	0.7	

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[USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS]

[Use a 1% solution of Virkon® S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon® S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon® S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon® S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon® S to pool on surfaces that may be within reach of animals. Do not allow Virkon® S to come into direct contact with people. Allow Virkon® S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.]

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal

PESTICIDE STORAGE:

For pails, [jugs], [bottles]: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. [Retain dessicant canister with product during storage.] Do not mix this product with other chemicals.

For [sachet] [pouch] [packet] [bag]: Store in a cool dry place. Keep out of reach of children. [Retain dessicant canister with product during storage.] Do not mix this product with other chemicals.

[For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.]

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.

[Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment.] Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Please read instructions on reverse before	ore completing form.		Form Approve	ed, JuliB No. 2070-0	0060, Approval expires 05-31-98
O EDA	United Sta	ites	☐ Regist	ration	OPP Identifier Number
EPA Env	rironmental Prote	ection Agenc			İ
	Washington, Do	_			
-			☐ Other:		
	Appli	cation for Pe	esticide - Sectio	n I	
1. Company/Product Number 71654 - 6			Product Manager Eline Hardy		3. Proposed Classification
4. Company/Product (Name)		PM#			None Restricted
Virkon® S			Team 34		_
5. Name and Address of Applicant (III THE CHEMOURS COMPAN)					ith FIFRA Section 3(c)(3) composition and labeling
1007 MARKET STREET		to:	, ,		
WILMINGTON, DE 19898		EPA F	Reg. No		<u> </u>
ATTN: Thomas C. McEntee					
Check if this is a new ac	aress	<u> </u>	ct Name		
		Secti	on - []		
Amendment – Explain below.			Final printed la	bels in response to	Agency letter dated
Resubmission in response to A	gency letter dated		Me Too" Applie		
Notification - Explain below.	l	/F 01	Other - Explain		
Explanation: Use additional Current Alternate B		ary. (For Sect	ion I and Section I	.) ed Name	
DUPONT™ VIRKON® VC DISINFE		DE VIRKON®	VC DISINFECTANT AN		VETERINARY
DUPONT™ TRIFECTANT® BROA			TRIFECTANT® BROAL		
DUPONT™ VIRKON® AQUATIC D	ISINFECTANT AND		AQUATIC DISINFECTA		
DUPONT™ VIRKON® S DISINFEC	STANT AND VIRUCIDE	E VIRKON®	S DISINFECTANT AN	D VIRUCIDE	
Ouglify the viruaidal alaim with a	n aatoniale				
Qualify the virucidal claim with an "This notification is consistent with the pro		.10 and EPA regulat	ions at 40 CFR 152 46 ar	id no other changes h	ave been made to the labeling or the
confidential statement of formula of this pr	roduct. I understand that	it is a violation of 1	8 U.S.C. Sec. 1001 to wil	lfully make any false	statement to EPA. I further
understand that if this notification is not co to enforcement action and penalties under	insistent with the terms o	of PR Notice 98-10 a	md 40 CFR 152.46, this p	roduct may be in viol	ation of FIFRA and I may be subject
to entercement action and penantes under	section 12 and 14 of Fire		111		
		Section	on - III		
Material This Product Will Be Pac Child-Resistant Packaging	ckaged In: Unit Packaging		Water Saluble Dee	lanian (2. The of Containing
Yes*	X Yes		Water Soluble Pac	Kaging	2. Type of Container Metal
⊠ No	No No		N ₀		Plastic
2	If "Yes"	No. per	if "Yes"	No. per	吕
*Certification must	Unit Packaging wo	gt. container	Package wgt.	container	☐ Glass
be submitted	5 gram,	50	37 gram	50	Paper
Location of Net Contents Informa	ition 4. Siz	ze(s) Retail Contai	l	5. Location of	Label Directions
		oùnd, 5 gram t		On Label	
_	sach	et	-		ig accompanying product
Manner in Which Label is Affixed		ithograph	Other		pany bulk shipments
		Paper glued			
		Section Section	on - IV		
Contact Point (Complete items die	rectly below for identify			annon, ta arangan	thin application)
Name	ectly below for locitum	Title	TO DE CONTACTEO, II NEC		elephone No. (Include Area Code)
Thomas C. McEntee		Registration	Manager	'	(978) 335-8055
		ication		- · · -	6. Date Application
I certify that the statements I have m					Received
acknowledge that any knowingly fals under applicable law.	se or misleading staten	nent may be punis	nable by tine or impriso	onment or both	(Stamped)
2. Signature		3. Title			1
	.	Registratio	n Manager		
1/10. 1	· elle				
16 2mo (4 The				
4. Typed Name		5. Date			1
Thomas C. McEntee		March 12,	2015		56

February 23, 2015

Document Processing Desk
Ms. Jacqueline Hardy (7504P)
US Environmental Protection Agency
Office of Pesticide Programs
2777 South Crystal Drive
Arlington, VA 22202

amens

Reference: VIRKON® S; EPA Registration No. 71654-6 --- Notification

Dear Ms. Campbell,

The purpose of this notification is to update the MASTER LABEL in order to reflect the new company name & address, to qualify the virucidal claim with an asterisk, revise the Alternate Brand Names (ABN) and to correct the respirator statement to be consistent with PR Notice 98-8.

Current Alternate Brand Name	Amended Name
DUPONT™ VIRKON® VC DISINFECTANT AND VIRUCIDE FOR VETERINARY USE	VIRKON® VC DISINFECTANT AND VIRUCIDE FOR VETERINARY USE
DUPONT™ TRIFECTANT® BROAD SPECTRUM DISINFECTANT	TRIFECTANT® BROAD SPECTRUM DISINFECTANT
DUPONT™ VIRKON® AQUATIC DISINFECTANT AND VIRUCIDE	VIRKON® AQUATIC DISINFECTANT AND VIRUCIDE
DUPONT™ VIRKON® S DISINFECTANT AND VIRUCIDE	VIRKON® S DISINFECTANT AND VIRUCIDE

CURRENT STATEMENT	REVISED STATEMENT
Note: Individuals must avoid entering the	Note: Individuals must avoid entering the
building or room during fogging. If the	building or room during fogging. If the
building or room must be entered, then	building or room must be entered, then
individuals entering must wear a self-contained	individuals entering must wear a
respirator approved by NIOSH/MSHA,	NIOSH/MSHA approved respirator, plus
goggles, long shirt sleeves, and pants	goggles, long sleeve shirts and pants.

Should you have any questions, please feel free to call or e-mail. Thank you for your attention to our application.

Sincerely,

Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@chemours.com

Throws (in the

(978) 312 1160

(978) 335 8055 MOBILE

TRANSMITTAL DOCUMENT

Attention:

Mr. Jacqueline Hardy Antimicrobials Division (7510P) US Environmental Protection Agency Office of Pesticide Programs 2777 South Crystal Drive Arlington, VA 22202-4501

NAME AND ADDRESS OF SUBMITTER

The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19898

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED-

MASTER LABEL

Virkon® S; EPA Registration No. 71654 - 6

Transmittal Date: February 23, 2015

Transmittal Material:

Volume 1 Administrative Materials

Cover Letter 1 page
Application for Pesticide Registration (EPA Form 8570-1) 1 page
Transmittal Document this page
071654-00006.20150223.Virkon S.MASTER LABEL 1 CD

Rivas, Lorena

From:

Thomas.C.McEntee@chemours.com Thursday, March 12, 2015 4:40 AM

Sent: To:

Rivas, Lorena

Subject:

FW: EPA Reg. No. 71654 - 6; Virkon(R)S substitute E-label

Attachments:

071654-00006 20150223 Virkon S Chemours MASTER Virus Asterisk.pdf: 20150223 8570-1 Application for Pesticide - CHEMOURS Virkon S Name.docx; 2015023 ReName Products

cover Letter Hardy 71654-6 self-contained deleted.pdf; 20150223 Virkon S 71654-6

Transmittal.pdf

Ms. Lorena Rivas,

Ref: your March 11, 2015 e-mail to me concerning the term "powerful" and request for an e-label for # 71654- 6 and #71654 - 7.

Please refer to the attached docs which had been e-mailed to Ms. Jacqueline Hardy on Feb. 23, 2015.

I will follow-up concerning EPA Reg. No. 71654-7 with a separate e-mail.

Thank you for your assistance with our registrations.

From: MCENTEE, THOMAS C

Sent: Thursday, February 26, 2015 1:18 PM

To: 'Hardy.jacqueline@Epa.gov'

Subject: EPA Reg. No. 71654 - 6; Virkon(R)S substitute E-label

Ms. Jacqueline Hardy,

Thank you for your telephone call and flexibility to receive the corrected MASTER label as an e-submission.

Should you have any questions please feel free to call or e-mail.

Thomas C. McEntee 978 312 1160

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Kuraray Co., Ltd

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Français Deutsch Italiano Espanol Portugues Japanese Chinese Korean

http://www.DuPont.com/corp/email disclaimer.html

Please read instructions on reverse befo	re completing form.		Form Approved, OMB No. 20	070-0060, Approval expires 05-31-98
O EDA	United States		Registration	OPP Identifier Number
EPA Env	ironmental Protection	n Agency	x□ Amendment	
	Washington, DC 2046	-	The second secon	
			Other:	
	Applicatio	on for Pesticion		
Company/Product Number		EPA Produc	t Manager	Proposed Classification
71654 - 6		Jacquelin	e Campbell	
Company/Product (Name) VIRKON S		PM# Team 3	4	None Restricted
Name and Address of Applicant (In	nclude ZIP Code)			e with FIFRA Section 3(c)(3)
THE CHEMOURS COMPANY	FC, LLC			al in composition and labeling
1007 MARKET STREET WILMINGTON DE 10808		to:		
WILMINGTON, DE 19898 ATTN: Thomas C. McEntee		EPA Reg. No	0	
Check if this is a new ac	Idress	Product Nan	ne	
		Section - I		
X Amendment – Explain below.			Final printed labels in response	o to Agency letter dated
Resubmission in response to A			'Me Too" Application	e to Agency letter dated
Notification - Explain below.	gorley rotter adios	_ =	Other - Explain below	
Explanation: Use additional	page(s) if necessary. (
Change product name follow				S"
AND add the Alternate Bran				
"VIRKON® VC DISINFEC	TANT AND VIRUC	IDE FOR VE	ΓERINARY USE"	
"ANTEC® TRIFECTANT I	BROAD SPECTRUM	1 DISINFECT	ANT"	
"VIRKON® AQUATIC DIS				
"VIRKON® S POWERFUL			TANT"	
		Section - II		Powerful?
Material This Product Will Be Page	ckaged in:			John Chil
Child-Resistant Packaging	Unit Packaging	Wa	iter Soluble Pa	
L Yes*	X Yes		Yes	•
⊠ No	⊠ No If "Yes"	No. per If "	No Yes"	
*Certification must			ckage wgt.	
be submitted				
Location of Net Contents Informa	tion 4. Size(s) Re	letail Container		AT OF LADE! DIFFORMING
	tainer 11 pound,	1 pound,	On La	
		50tablets, 37 in	dividual On la	beling accompanying product
Manner in Which Label is Affixed			Otherpaper labels ac	company bulk shipments
	□ Paper gl □ Stencile			6 8
		Section - I\	/	4.6 . 4
Contact Point (Complete items dir	rectly below for identification c	of individual to be c	ontacted, if necessary, to proce	ess this application)
Name	Title			Telephone No. (Include Area Code)
Thomas C. McEntec		gistration Manag	ger	(978) 335-8055
	Certificatio			Date Application
I certify that the statements I have macknowledge that any knowingly fals under applicable law.				Received
2. Signature		. Title		100000
	R	Registration Mar	iager	e e e e
11/ Page of	in Alex			6 4 6 6
10 minor	B Kr - me			
4. Timed Slame		D-1-		
4. Typed Name		Date		

November 25, 2014

Document Processing Desk
Ms. Jacqueline Campbell (7504P)
US Environmental Protection Agency
Office of Pesticide Programs
One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202

Reference: VIRKON® S, EPA Registration No. 71654-6

Dear Ms. Campbell,

Under separate cover, documents to transfer the company number and registration assets of EPA Company Number 71654 have been communicated to Mr. Louis Vaughn at US EPA.

The purpose of this submission is to rename the product associated with the registration under the new company name and add Alternate Brand Names (ABN).

Current Name	Amended Name
VIRKON S	VIRKON® S
	VIRKON® VC DISINFECTANT AND VIRUCIDE FOR VETERINARY USE (ABN
	ANTEC® TRIFECTANT BROAD SPECTRUM DISINFECTANT(ABN)
	VIRKON® AQUATIC DISINFECTANT AND VIRUCIDE (ABN)
	VIRKON® S POWERFUL BROAD SPECTRUM DISINFECTANT (ABN)

Should you have any questions, please feel free to call or e-mail.

Thank you for your attention to our application.

Zomo (in Ale

Sincerely,

Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@dupont.com

(978) 312 1160

(978) 335 8055 MOBILE

S: 961488	Milestone Linail:				The same		AND STREET
S. 90 1400 Regulatory Type: Product Registra			Resubmissio	n () Va	@ No	Prir	nt Letter
	Hori - Section 5		Fee For Service		The state of the s	Enter Mo	re Information
Application Type: Amendment		<u> </u>	Billabl	e: 🔾 Ye	s 😑 No	Tr	acking
Company: 71654 THE CH	EMOURS COMPANY FO	C, LLC	V				
Risk Manager: Antimicrobials Div	vision, Risk Managemen	t Team 34					
Product #: 71654-6	Product Name: VIRKON	IS					
Override#.							
Me Too Section3:	Me Too Product Name:						
Application Date: 25-Nov-2014	4 🖟 OPP	Rec'vd Date:	10-Dec-2014		Receipt Co	ontent	D
	Charles or a comment of the comment			The second second			
Front End Date: 10-Dec-2014	Risk Manag	er Send Date:	12-Dec-2014		Other	CI	HANGE PRODUC
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To be a second of the second o			12-Dec-2014			(CI	HANGE PRODUCT
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

December 16, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MR. THOMAS C. MCENTEE THE CHEMOURS COMPANY FC, LLC 1007 MARKET STREET WILMINGTON, DE 19898-

PRODUCT NAME: VIRKON S

COMPANY NAME: THE CHEMOURS COMPANY FC, LLC

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 71654-6 EPA RECEIPT DATE: 12/10/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 34, at (703) 308-6427.

Sincerely,

Front End Processing Staff Information Services Branch

Information Technology & Resources Management Division



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

December 12, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MR. THOMAS C. MCENTEE
THE CHEMOURS COMPANY FC, LLC
1007 MARKET STREET
WILMINGTON, DE 19898-

PRODUCT NAME: VIRKON S

COMPANY NAME: THE CHEMOURS COMPANY FC, LLC

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 71654-6 EPA RECEIPT DATE: 12/10/14

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If you have any questions, please contact Antimicrobials Division, Risk Management Team 34, at (703) 308-6427.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



Fee for Service

{961488T~

This package includes the following New Registration Amendment Studies? Fee Waiver?	for Division Output
volpay % Reduction:	Risk Mgr. 34
Receipt No. S- EPA File Symbol/Reg. No. Pin-Punch Date:	961488 71654-6 12/10/2014
This item is NOT subject to	o FFS action.
Action Code: Requested: 302 Granted: 300 Amount Due: \$	Parent/Child Decisions:
Inert Cleared for Intended Use Reviewer: Remarks:	Uncleared Inert in Product Date: 12/11/14

Material Sent for Data Extraction

REG#	71654-6	
Descript	ption: Notification	
	Material (s) Sent to Data Extractio	າ Contractors
	New Stamped label Dated:	
V	Notification Dated: 10/17/201	4
	New CSF(s) Dated:	
	Other:	
Decision		
Other A	Action/Comments:	
	······································	· · · · · · · · · · · · · · · · · · ·
Reviewe	^{ver:} Lorena Rivas	
Phone:	703-305-5027 Di	vision: AD
Date:	October 16, 2014	
must b	h this coversheet to the top of be well organized and clipped give the material with this cov	together, NOT STAPLED.

Information Services Center (Room S-4900).

Rivas, Lorena

From: Sent: Thomas.C.McEntee@dupont.com Tuesday, October 21, 2014 3:36 PM

To:

Rivas, Lorena

Subject:

RE: Accepted Notification for Reg. 71654-6.

Hello Ms. Rivas,

I have received the notification stamped label completely satisfactory.

Thank you for your assistance with our registration.

Sincerely -- Tom McEntee

From: Rivas, Lorena [mailto:Rivas.Lorena@epa.gov]

Sent: Tuesday, October 21, 2014 3:08 PM

To: MCENTEE, THOMAS C

Subject: Accepted Notification for Reg. 71654-6.

Hi Mr. McEntee,

Enclosed you will find scan Pdf copy the accepted notification agency letter and approved notification stamped label dated October 17, 2014.

Please reply with an email that you have received all attachments.

Please do not hesitate to contact me if you have any questions regarding your Notification.

Regards,

Lorena Rivas
Registration Risk Manager
Antimicrobials Division (AD)
Environmental Protection Agency
2777 South crystal Drive
Arlington, VA 22202
Rivas.lorena@epa.gov

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

October 17, 2014

Thomas C. McEntee
E.I. DuPont de Nemours and Company
Dupont Chemicals & Fluoroproducts P.O. Box 80402
Experimental Station (ESL 402/3442A)
Wilmington, DE 19880-0402

Subject:

Virkon® S

EPA Registration No.: 71654-6 Notification Date: September 05, 2014 EPA Receipt Date: September 10, 2014

Dear Mr. McEntee,

This letter acknowledges receipt of your notification submitted under the provisions of PR Notice 98-10.

Proposed Notification

- Adding an efficacy claim against the Non-OlE List Animal Pathogen, Porcine Epidemic Diarrhea Virus (PEDV). This claim is supported by efficacy, no data is needed for this organism.
- Updating other minor adjustments and corrections on the label.

General Comments

Based on a review of the submitted materials, to add the Non-OIE list animal Pathogen Epidemic Diarrhea Virus (PEDV) claim and updating other minor corrections on the label, per PR Notice 98-10 is acceptable and a part of the record on file for future reference.

Should you have any questions or comments concerning this letter, you may contact Lorena Rivas by telephone at (703) 305-5027 or by e-mail at rivas.lorena@epa.gov. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

Julie Chao, Acting Product Manager 34 Regulatory Management Branch II Antimicrobials Division (7510P)

Office of Pesticide Programs

Plui Ame Sh

Note to reviewer – Content in brackets [] is OPTIONAL

Virkon® S

Disinfectant and Virucide

[BROAD SPECTRUM DISINIFECTANT,][FUNGICIDE] [& ALGAECIDE] [OPT]

[Fragrance Free] [Reduced Dye] [Fragrance and Dye Free] [OPT]

For Use in Cleaning and Disinfecting Industrial, Animal and Agricultural Facilities

[For Use in Emergency Disease Control] [OPT]

Effective against

Viruses

Including Canine Parvovirus [OPT]

Bacteria

Fungi

ACTIVE INGREDIENTS:

NOTIFICATION

71654-6
The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

10/17/14

Equivalent to 9.75% Available Chlorine

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

[See Inside Booklet for Additional Precautions] [OPT] [See leaflet for additional directions for use] [OPT]

EPA Reg. No. 71654-6 EPA Est. No. XXXXX-YY-ZZZ

<Lot or batch #>

[POWDER FORM] [OPT]

[TABLET FORM] [OPT]

[SACHET FORM] [OPT]

Copyright © 2006-2014 E. I. du Pont de Nemours and Company All Rights Reserved.

Virkon® S is a registered trademark of and manufactured by Antec International Ltd., a DuPont Company

Front Panel Continued

FIRST AID		
If in Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.	
If on Skin or Clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.	
If Swallowed:	Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person	
HOT LINE NUMBER		

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas). Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured for: E. I. du Pont de Nemours and Company Chemicals & Fluoroproducts 200 Powder Mill Road Wilmington, DE 19803

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

US Patent No. 4822512

EFFECTIVE AGAINST THE FOLLOWING [PATHOGEN]: OPT

[ANIMAL AND ZOONOTIC PATHOGENS] OPT

BACTERIA

[Actinobacillus pleuropneumoniae] OPT

[Bacillus cereus] OPT

[Brucella abortus] OPT

[Campylobacter jejuni] OPT

[Clostridium perfringens]

[Dermatophilus congolensis]

[Escherichia coli]

[Klebsiella pneumoniae]

[Mycoplasma gallisepticum]

[Mycoplasma hyopneumonia]

[Pasteurella multocida] OPT

Pseudomonas aeruginosa

Salmonella enterica

Salmonella typhimurium

[Shigella sonnei] OPT

[Staphylococcus aureus

[Staphylococcus epidermidis]

[Streptococcus pyogenes]

[Streptococcus suis]

[Not approved in California for use against the following bacteria:]

[Bordetella avium]

[Bordetella bronchiseptica]

[Fistulous withers (Poll Evil)]

[Haemophilus somnus]

[Helicobacter pylori]

[Leptospira canicola]

[Listeria monocytogenes]

[Moraxella bovis (Pink Eye)]

[Mycoplasma mycoides]

[Pseudomonas mallei (Glanders)]

[Pseudomonas vulgaris]

[Streptococcus equi (Strangles)]

[Taylorella equigenitalis]

[Treponema hyodysenteriae] OPT

VIRUSES

Avian Influenza Virus

[Avian Laryngotracheitis Virus] OPT

[Bovine Adenovirus Type 4]

[Canine Adenovirus (Canine Hepatitis)] OPT

[Canine Parvovirus] OPT

20140905 20110419 Virkon S 71654-6 ESL 20110511

Master Label

[Equine Herpes Virus (Type 1)]

[Equine Herpes Virus (Type 3)]

[Equine Influenza Virus (Type A)]

[Feline Calicivirus]

[Feline Panleukopenia Virus]

[Feline Rhinotracheitis Virus]

[Foot and Mouth Disease Virus]

[Newcastle Disease Virus]

[Simian virus (SV40 Virus)]

[Not approved in California for use against the following viruses:]

[Adenovirus Pneumonia]

[African Horse Sickness Virus]

[African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water)]

[Bovine Polyoma Virus]

[Bovine Pseudocowpox Virus]

[Bovine Viral Diarrhea Virus (no hard water)]

[Calf Rotavirus (no hard water)]

[Canine Coronavirus]

[Canine Parainfluenza Virus]

[Chicken Anemia Virus]

[Coital Exantherma Virus]

[Distemper Virus]

[Duck Adenovirus (no hard water)]

[Duck Enteritis Virus]

[Egg Drop Syndrome Adenovirus]

[Equine Infectious Anemia Virus (Swamp Fever)]

[Equine Arteritis Virus (no hard water)]

[Equine Contagious Abortion Virus]

[Equine Papillomatosis Virus]

[Equine Influenza Virus (The Cough)]

[Feline Herpes Virus]

[Feline Infectious Peritonitis Virus]

[Feline Parvovirus]

[Hog Cholera Virus]

[Infectious Bronchitis Virus]

[Infectious Bursal Disease Virus]

[Infectious Canine Hepatitis Virus]

[Infectious Pancreatic Necrosis Virus]

[Infectious Salmon Anaemia Virus]

[Infective Bovine Rhinotracheitis Virus (no hard water)]

[Leptospira Canicola Virus]

[Maedi- Visna Virus]

[Marek's Disease Virus]

[Mouse Parvovirus]

[PCV2 Virus (PMWS)]

[Porcine Epidemic Diarrhea Virus]

[Porcine Parvovirus]

[Porcine Reproductive and Respiratory Syndrome Virus (PRRS)]

20140905 20110419 Virkon S 71654-6 ESL 20110511

Master Label

[Pseudorabies Virus (Aujesky's Disease) (no hard water)]

[Rotaviral Diarrhea Virus]

[Snakehead rhabdovirus]

[Swine Influenza Virus]

[Swine Vesicular Disease Virus]

[Transmissible Gastroenteritis Virus (TGE) (no hard water)]

[Turkey Herpes Virus (no hard water)]

[Turkey Rhinotracheitis Virus]

[Vesicular Stomatitis Virus]

[FUNGI]

[Trichophyton mentagrophytes (2%)]

[Not approved in California for use against the following fungi:]

[Aspergillus fumigatus]

[Fusarium moniliforme]

[Microsporum canis]

[Trichophyton spp. (Ringworm)]

[Trichophyton spp. (Mud Fever)]

[PLANT PATHOGENS]

[Not approved in California for use against plant pathogens:]

[Alternaria solani]

[Botrytis cinera]

[Colletotrichum coccodes]

[Didymella bryoniae]

[Fusarium oxysporum]

[Fusarium solani]

[Penicillium oxalicum]

[Phomopsis sclerotioides]

[Pyrenochaeta lycoopersici]

[Pythium aphanidermatium]

[Rhizoctonia solani]

[Sclerotinia sclerotiorum]

[Thielaviopsis basicola]

[Verticillium dahliae]

[Xanthomonas axonopodis] OPT

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

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ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT

Virkon® S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts – Not Approved for this use in California), and mycoplasma. Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hard water," "no soil load," and "use 2% solution."

[Respiratory illnesses attributable to Pandemic 2009 H1N1are caused by influenza A virus. Virkon® S [OPT] [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).] [OPT]

[This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.] [OPT]

[This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).] [OPT]

[Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).] [OPT]

[Kills Pandemic 2009 H1N1 influenza A virus.] [OPT]

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

GENERAL INSTRUCTIONS—POULTRY AND FARM PREMISES

- 1. Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- 2. Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the use-diluted disinfecting solution for a period of 10 minutes.
- 6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- 7. Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 8. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

[Fogging (Wet Misting) Instructions -

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon® S dilution of 0.5% to 2.0% in water (1:200 to 1:50) - (refer to specific directions for Poultry, Swine, Bovine, Greenhouse and Aquaculture uses.).

Apply use-diluted solution at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.] OPT.

Virkon® S DILUTION CHART

To achieve the appropriate use-diluted Virkon® S concentration, fill container with the volume of water and quantity of powder or tablet(s) found in the following table. [For a 1% solution, add one (1) tablet to one pint of water. OPT.] [For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water.] OPT.

Powder

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 Quart	0.15 ounces*	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces*	1.3 ounces	2.7 ounces
10 Gallons	6.7 ounces*	13.4 ounces	26.7 ounces
_50 Gallons	33.4 ounces*	66.8 ounces	133.5 ounces

Measuring cup provided.

Tablet

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 Pint		l tablet	2 tablets
1 Quart	1 tablet*	2 tablets	4 tablets
1 Gallon	4 tablets*	8 tablets	16 tablets

Sachet

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
l gallon		1 Sachet	2 Sachets
2 Gallons	I Sachet	2 Sachets	4 Sachets

^{*} The 0.5% solution currently is not approved for use in California.

Solutions are stable for 7 days. Do not soak metal objects in Virkon® S for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. [This powder formulation is easily diluted for use in manual or machine operations. OPT.]

[POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts – Not Approved for this use in California) Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori, 1 OPT.

[HATCHERIES: Virkon® S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.] OPT.

[Fogging (Wet Misting) Instructions - Poultry and Ratite Production

Follow General Instructions to remove poultry and/or animals from room to be treated.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated.

Prepare a Virkon® S at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.] OPT.

[BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon® S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon® S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.] OPT

[PROCESSING PLANTS: Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.] OPT.

[SWINE PRODUCTION] OPT.

[CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Foot and Mouth Disease virus, Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, and Bacteria of Treponema hyodysenteriae.] OPT.

[Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon® S for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.] OPT.

[Fogging (Wet Misting) --- Swine

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)]. OPT.

[EQUINE PRODUCTION] OPT.

[BROAD SPECTRUM EQUINE DISINFECTANT/DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT] OPT

[CONTROLS: Viruses of Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Staphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme, Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptoeoccus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).] OPT.

[APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.]

[To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon® S, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.] OPT

[BOVINE PRODUCTION] OPT.

[CONTROLS: Bovine Adenovirus Type 4, Foot and Mouth Disease virus; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, and Bacteria of Haemophilus somnus.] OPT.

[Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon® S to elean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.] OPT.

[Fogging (Wet Misting) --- Bovine

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)]. OPT.

[COMPANION ANIMALS] OPT.

[CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.] OPT.

[APPLICATIONS: Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure (Remove gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages [caging systems] within or [associated with] Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon® S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinsc waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon® S for long periods - 10 minutes is maximum contact time.] OPT.

[GREENHOUSES AND HORTICULTURE] OPT.

[Virkon® S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.] OPT.

[For surfaces and equipment /

- 1) Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2) Use a dilution of 1:100 or 1.3 oz. Virkon® S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3) Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.

- 4) Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5) Reapply as often as needed for control.

For clean non-porous surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon® S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon® S per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.] OPT.

[For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon® S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon® S for every gallon of cooler water.] OPT.

[Virkon® S may also be used to disinfect irrigation tanks and lines. Not approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.] OPT.

[Fogging (Wet Misting) Instructions – Greenhouse/Horticulture

[Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%.* Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)]. OPT.

[AQUACULTURE] OPT.

[Not approved for this use in California] OPT.

[Virkon® S is intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon® S may also be used in foot dips. Virkon® S must not be applied directly to water.] OPT.

[Equipment used in separate sites, tanks, ponds in aquaculture settings must be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon® S solution followed by a water rinse.] OPT.

[Fogging (Wet Misting) Instructions -- Aquaculture

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. *Not approved in California for fogging at dilutions less than 1%*. Fog (wet mist) until the area is moist using automatic foggers

according to manufacturer's use directions. Rinse foggers and sprayers with water following use. Refer to Fogging (Wet Misting instructions)]. OPT.

[EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)] OPT.

[Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including; Newcastle Disease Virus, Foot and Mouth Disease Virus, African Horse Sickness Virus†, Vesicular Stomatitis Virus†, Classical Swine Fever Virus†, (Hog Cholera virus†), African Swine Fever Virus†, Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus†, and Mycoplasma mycoides† (Contagious Bovine Pleuropneumonia†). †Not approved for this use in California.] OPT.

[Use a 1% solution of Virkon® S to clean and disinfect agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harboring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers).

Spray Virkon® S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon® S for long periods - 10 minutes is maximum contact time.] OPT.

[DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

Not approved for this use in California

The instructions above call for use of a 1% solution for general disinfection. However, Virkon® S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rates specified below. If the threat is known and limited to one of the organism below, Virkon® S may be used at the following dilution rates:] OPT

Organism	Dilution Rate	Oz./Gallon
PCV2 virus (PMWS)	1:200	0.7

] OPT

[USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS] OPT.

[Use a 1% solution of Virkon® S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon® S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon® S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon® S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon® S to pool on surfaces that may be within reach of animals. Do not allow Virkon® S to come into direct contact with people. Allow Virkon® S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.] OPT.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal

PESTICIDE STORAGE:

For pails, [jugs], [bottles]: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. [Retain dessicant canister with product during storage.] Do not mix this product with other chemicals.

For [sachet] [pouch] [packet] [bag]: Store in a cool dry place. Keep out of reach of children. [Retain dessicant canister with product during storage.] Do not mix this product with other chemicals.

[For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.]

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. [Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment.] Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

E. I. du Pont de Nemours and Company Chemicals & Fluoroproducts DuPont Experimental Station - ESI, 402 200 Powder Mill Road P. O. BOX 8352 Wilmington, DE 19803



September 5, 2014

US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Campbell (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: Virkon® S; EPA Registration No. 71654-6

Notification

Dear Ms. Campbell,

Please consider this letter and attachments as a notification to add a claim for disinfection of the non-OIE list pathogen, Porcine Epidemic Diarrhea virus. The claim is supported by efficacy data, but is not submitted because FIFRA 2(ee) claims are not subject to data review.

There are other minor adjustments and correction of typos, which are detailed in the attachment.

Should you have any questions, feel free to call or e-mail.

Sincerely,

Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@usa.dupont.com

To rows (n - 2Ken

(978) 335-8055 CELL

(978) 312-1160

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Thomas C. McEntee		Į.	istration	Manage	er			335-8055.	
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acknowledge that any knowingly fals	acknowledge that any knowingly false or misleading statement ma						I	Stamped)	
under applicable law.	<u> </u>								
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VIRKON® S Disinfectant and Virucide EPA Reg. No. 71654 – 6

LIST OF REVISIONS TO MASTER LABEL SEPTEMBER 5, 2014 071654-00006.20140905.Virkon S.PEDv.Notification.pdf

Page 2 – Change Company Address To:

E. I. du Pont de Nemours and Company Chemicals & Fluoroproducts 200 Powder Mill Road Wilmington, DE 19803

Page 4 – Add "[Porcine Epidemic Diarrhea Virus]" to the section under <u>Not Approved in California for use against the following viruses</u>, to read:

[Mouse Parvovirus]

[PCV2 Virus (PMWS)]

[Porcine Epidemic Diarrhea Virus]

[Porcine Parvovirus]

[Porcine Reproductive and Respiratory Syndrome Virus (PRRS)]

[Pseudorabies Virus (Aujesky's Disease) (no hard water)]

Page 4 – Move "[Foot and Mouth Disease Virus]" from the <u>Not Approved in California for use against the following viruses</u>, to read:

[Feline Rhinotracheitis Virus]

[Foot and Mouth Disease Virus]

[Newcastle Disease Virus]

Page 4 – Move and edit "[Leptospira Canicola Virus]" from the section <u>Not Approved in California for use against the following viruses</u>, to page 3 under "[Not approved in California for use against the following bacteria:]" to read:

[Helicobacter pylori]

[Leptospira canicola]

[Listeria monocytogenes

TRANSMITTAL DOCUMENT

Ms. Jacqueline Campbell
Antimicrobials Division (7510P)
US Environmental Protection Agency
Office of Pesticide Programs Room S-4900
2777 South Crystal Drive
Arlington, VA 22202-4501

NAME AND ADDRESS OF SUBMITTER

E. I. du Pont de Nemours and Company Chemicals & Fluoroproducts DuPont Experimental Station - ESL 402 200 Powder Mill Road P. O. BOX 8352 Wilmington, DE 19803

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED

NOTIFCATION: ADDED CLAIM FOR EFFICACY AGAINST THE NON-OIE LIST ANIMAL PATHOGEN, PORCINE EPIDEMIC DIARRHEA VIRUS and several adjustments to the list of disclaimed for California uses.

"Virkon® S"; EPA Registration No. 71654 - 6

Transmittal Date: September 5, 2014

Volume 1	Administrative Materials	

-Cover Letter ! page
-Application for Pesticide Registration (EPA Form 8570-1) ! page
-Transmittal Document this page
-071654-00006.20140905.Virkon_S.PEDv.Notification.pdf one dvd '

- LIST OF REVISIONS TO MASTER LABEL-Sept. 5, 2014

2 pagés ?

Page 10 – Under SWINE PRODUCTION move "Foot and Mouth Disease Virus" from the "Not Approved in California for . . ., area to read:

[CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Foot and Mouth Disease virus, Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, and Bacteria of Treponema hyodysenteriae.]

Page 11-- Under BOVINE PRODUCTION move "Foot and Mouth Disease Virus" from the "Not Approved in California for . . . , area to read:

[CONTROLS: Bovine Adenovirus Type 4, Foot and Mouth Disease virus; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, and Bacteria of Haemophilus somnus.]

Page 13 - replace "should" with "must" to read:

[Equipment used in separate sites, tanks, ponds in aquaculture settings *must* be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon® S solution followed by a water rinse.] OPT.

Page 14 – Revise the EMERGENCY DISEASE CONTROL section by repurposing the sub-heading, "Not approved for this use in California" to become a footnote marked by the dagger symbol, "†" and editing the paragraph to read:

Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including; Newcastle Disease Virus, Foot and Mouth Disease Virus, African Horse Sickness Virus†, Vesicular Stomatitis Virus†, Classical Swine Fever Virus†, (Hog Cholera virus†), African Swine Fever Virus†, Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus†, and Mycoplasma mycoides† (Contagious Bovine Pleuropneumonia†).

†Not approved for this use in California.

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Company: 7165	4 E.I. DUPO	NT DE NEMOU	RS AND COMPANY	V			Tracking	
Risk Manager: Antir	nicrobials Divisi	ion, Risk Mana	gement Team 34		Г	7		
Product #: 7165	4-6 Pri	oduct Name: V	IRKON S					
Override#:			1.					
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Application Date:	05-Sep-2014		OPP Rec'vd Date:	10-Sep-2014		Receipt Cor	ntent	De
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There is an ELECTRONIC LABEL for this action

You can use Acrobat to compare the e-label to the previous version (and find the changes). You can also use Acrobat to mark-up the e-label with your comments.

If e-label was submitted via

CD-ROM with paper application

then you will find e-label in

Electronic Label Library

If the e-label is not found in the ELL then it was probably not named correctly and could not be entered into the ELL. However, the file can be retrieved from the CD which is retained by the Front End.

or

If e-label was submitted via

XML E-Submission (no paper)

then you will find e-label in

Documentum

See overview of processing e-labels on other side of this sheet.

If you have any questions on e-labels, please contact one of your division e-label experts:

AD	Willie Abney	308-1689
	Renae Whitaker	308-7003
	Tracy Lantz	308-6415
BPPD		
RD	Tom Harris	308-9423



OFFICE OFCHEMICAL SAFETY AND POLUTION PREVENTION

June 11, 2013

I, <u>Jacqueline Campbell</u>, Regulatory Management Branch 2, Antimicrobials Division, Office of Pesticide Programs, Office of Chemical Safety and Polution Prevention, United States Environmental Protection Agency ("EPA"), certify that the pesticide product (s) listed below is, as of the date of this letter, a registered product under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, and that as such, the product(s) may be sold and marketed in the United States of America as authorized and limited by FIFRA. A true and correct copy of the product label approved by EPA is attached to accompany this letter.

Registration of this product(s) with EPA also denotes that the registrant listed below is responsible for ensuring full compliance with all the laws of the United States of America, or governing jurisdiction, regarding the sale, storage and/or disposal of the product(s). Further, the recipient of this letter is on notice that the referenced registration and/or the accompanying label may change subsequent to the date of this letter. EPA assumes no responsibility to notify the recipient(s) (i.e., Mexico) of this letter of any change in the status of the registration(s) and/or the product label for the product(s) listed below.

EPA has issued registration numbers for the product(s) listed below to:

E.I. Dupont De Nemours And Company 80402 Wilmington, DE 198800402

EPA Registration Number:

Name of Product:

71654-6 VIRKON S

> Jacqueline Campbell Risk Manager 34

Regulatory Management Branch 2 Antimicrobials Division (7510P)



Williams, Bettyr

From: Sent:

Thomas.C.McEntee@dupont.com Tuesday, June 11, 2013 11:47 AM

To:

Williams, Bettyr

Subject:

GOLD SEAL letter request for Mexico

Hello Betty,

EPA Reg. No. 71654-6

Gold Seal letter for Mexico

Thank you for your assistance.

Tom McEntee 978 335 8055

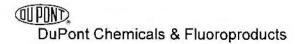
This communication is for use by the intended recipient and contains information that may be Privileged, confidential or copyrighted under applicable law. If you are not the intended recipient, you are hereby formally notified that any use, copying or distribution of this e-mail, in whole or in part, is strictly prohibited. Please notify the sender by return e-mail and delete this e-mail from your system. Unless explicitly and conspicuously designated as "E-Contract Intended", this e-mail does not constitute a contract offer, a contract amendment, or an acceptance of a contract offer. This e-mail does not constitute a consent to the use of sender's contact information for direct marketing purposes or for transfers of data to third parties.

The dupont.com web address will continue in use for a transitional period for communications sent or received on behalf of DuPont Performance Coatings., which is not affiliated in any way with the DuPont Company.

Français Deutsch Italiano Espanol Portugues Japanese Chinese Korean

http://www.DuPont.com/corp/email_disclaimer.html

SCM7 AD



June 3, 2013

US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Campbell-McFarlane (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: Virkon® S; EPA Registration No. 71654-6

Gold Seal Letter PRIA M006

Dear Ms. Campbell-McFarlane,

This is a request for five GOLD SEAL LETTERS pertaining to Virkon® S; EPA Registration No. 71654-6.

I have attached a copy of the PAY.GOV receipt for \$250.00 appropriate for PRIA code M006.

Should you have any questions, feel free to call or e-mail.

Zimo (in -2Ken

Sincerely,

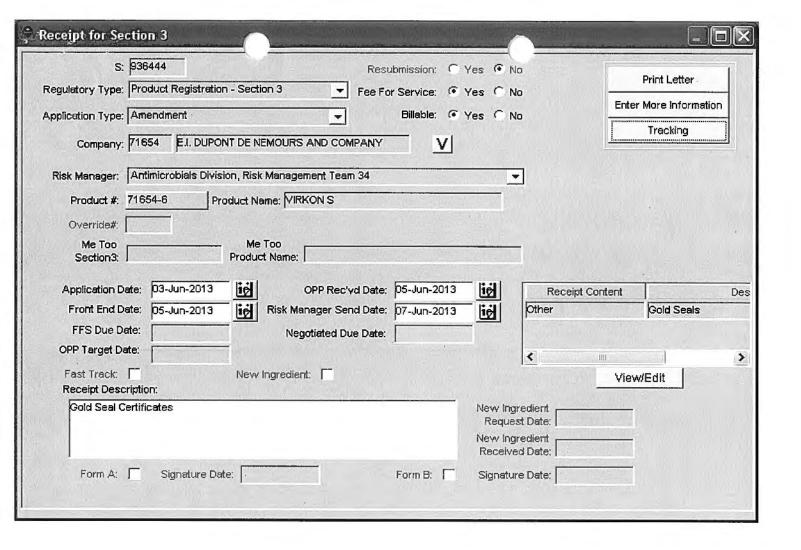
Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@usa.dupont.com

(978) 335-8055 CELL

(978) 312-1160



MCENTEE, THOMAS C

From: Sent:

paygovadmin@mail.doc.twai.gov Monday, June 03, 2013 3:36 PM

To:

MCENTEE, THOMAS C

Subject:

Pay.gov Payment Confirmation: PRIA Service Fees

Your payment has been submitted to Pay.gov and the details are below. If you have any questions or you wish to cancel this payment, please contact Pay.gov Customer Service by phone at (800) 624-1373 or by email at pay.gov.clev@clev.frb.org.

Application Name: PRIA Service Fees Pay.gov Tracking ID: 25B0T8EQ Agency Tracking ID: 74458243548

Transaction Type: Sale

Transaction Date: Jun 3, 2013 3:35:55 PM

Account Holder Name: Susan M Schaner

Transaction Amount: \$250.00 Billing Address: DuPont

Billing Address 2: P O Box 80402

City: Wilmington State/Province: DE

Zip/Postal Code: 198800402

Country: USA Card Type: Visa

Card Number: *********2032

Decision Number:

Registration Number: 71654-6 Company Name: DuPont Company Number: 71654

Action Code: M006

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

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June 7, 2013

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OPP Decision Number: D-479541

EPA File Symbol or Registration Number: 71654-6

Product Name: VIRKON S EPA Receipt Date: 05-Jun-2013 EPA Company Number: 71654

Company Name: E.I. DUPONT DE NEMOURS AND COMPANY

THOMAS C. MCENTEE
E.I. DUPONT DE NEMOURS AND COMPANY
DUPONT CHEMICALS & FLUOROPRODUCTS
PO Box 80402
WILMINGTON, DE 19880-0402

SUBJECT: Receipt of Request for Gold Seal Certification Letter(s)

Dear Registrant:

The Office of Pesticide Programs has received your request for Gold Seal Certification letter(s) that is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The action has been identified as action code M006:

UP TO 5 GOLD SEAL CERTIFICATION LETTERS PER REGISTRATION

No additional payment is due at this time. If you have any questions, please contact Betty Williams at (703) 308-0132.

Sincerely,

Front End Processing Staff

Information Technology & Resources Management Division

Material Sent for Data Extraction

Reg # <u>43813-24</u>
Description: 362
☑ Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated
Notification Dated
New CSF(s) Dated 6/14/2011
Other:
\boxtimes Decision #: 452605
Other Action/Comments:
Attach this coversheet to the top of the material or jacket. I must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900). Reviewer: Starry GRIGSBY
Phone: <u>305.4440</u> Division: <u>A</u>)
Date: 10/13/11 Created February 3, 2011

TASK ASSIGNMENT FORM

Antimiere 1 Division/Regulatory Management B ches I/II A Completed by Product Manager PRODUCT REVIEWER: Stacey Grigsby RMBII TEAM 34 Description of Action: Minor Formulation Change EPA File Symbol/Reg No.: 71654-6 362 **FQPA** Action Code: Non-FQPA Action Code: Fee for Service Action Code: Decision No. Submission No. & Fee for Service Fee: \$ MONTH DAY YEAR APPLICATION DATE 7 2011 18 7 **EPA PIN DATE** 2011 2011 REVIEWER ASSIGNED DATE 7 28 2011 DATE DUE TO PM 2011 DATE DUE OUT OF AGENCY Type of Data: Efficacy Product Acute Environmental Ecological Chronic Exposure Chemistry Toxicology Fate Effects Toxicology Comments: Minor Formulation Change Product Chemistry: Please review 7 alternate CSFs. ATTACHMENTS: **LABELING CSFs** DATA OTHER B For Arctic Slope Contract Only Contractor: Arctic Slope Contract No.: TOPO/Alt. TOPO: Draft Task: Signature Final Task: Signature (Est. hrs) (Total hrs) C **Reviewers Comments:**

Response Code:

1155

Response Date: 10/13/2011



STATES ENVIRONMENTAL PROTECT: AGENCY UNITERIT TES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OCT 13 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Thomas C. McEntee E.I. duPont de Nemours and Company Dupont Chemicals & Fluoroproducts P.O. Box 80402 Experimental Station (ESL 402/3442A) Wilmington, DE 19880-0402

Subject:

Virkon(R) S

EPA Registration No.: 71654-6 Application Date: July 6, 2011 Receipt Date: July 18, 2011

Dear Mr. McEntee:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) 3(c)7a, as amended, is acceptable.

Proposed Amendment:

Minor Alternate Formulation Change: 7 Alternate Formulations

General Comment:

The alternate formulations (1.1, 6.1A, 6.1H, 7.1A, 7.1H, 11.1A and 11.1H) dated, 6/14/11 are acceptable. They are in compliance with PR Notice 91-2 and in agreement with the label. Copies of the accepted alternate CSFs have been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, you may contact me by telephone at (703) 308-6416 or by e-mail at campbell-mcfarlane.jacqueline@epa.gov or Stacey Grigsby by telephone at (703) 305-6440 or by e-mail at grigsby.stacey@ epa.gov during the hours of 8:00am to

Jacqueline McFariane

Product Marrager (34)

Regulatory Management Branch II Antimicrobials Division (7510

CONCURRENCES SYMBOL SURNAME DATE EPA Form 1320-1A (1/90)

Printed on Recycled Paper



SEPA United States Environmental Protection Office of Pesticide Programs Agency

Antimicrobials Division (AD)

October, 2011

DP BARCODE: 392462

MRID: N/A

SUBJECT: Virkon® S

REG. NO.: 71654-6

DOCUMENT TYPE: **Product Chemistry Review**

Manufacturing-use [] OR End-use Product [X]

INGREDIENTS:

PC Code(s) CAS Number Active Ingredient(s): 013905 7647-14-5 Sodium chloride

063604 10058-23-8 Potassium peroxymonosulfate

N/A TEST LAB:

SUBMITTER: E. I. Dupont De Nemours and Company

GUIDELINE: **Product Chemistry**

ORGANIZATION: AD\PSB\CTT

REVIEWER: Lynette T. Umez-Eronini

Karen P. Hicks APPROVED BY:

October 2011 APPROVED DATE:

COMMENT:



SEPA United States Environmental Protoction Office of Pesticide Programs Agency

Juan Negron 10/13/4

Antimicrobials Division (AD)

October 13, 2011

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA Reg. 71654-6

> Product Name: Virkon® S DP Barcode: 392462

CODE: A362

DATE DUE: October 16, 2011

Lynette T. Umez-Eronini, Chemist Lynette J. Umez Eurumu Chemistry and Toxicology Team FROM:

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

THRU: Karen Hicks, Team Leader

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

TO: Jacqueline Campbell-McFarlane PM#34/Stacey Grigsby

> Regulatory Management Branch I Antimicrobials Division (7510P)

Applicant: E. I. Dupont De Nemours and Company

PRODUCT FORMULATION FROM LABEL:

<u>% by wt.</u>
1.50
21.41
_77.09
100.00



SEPA United States Environmental Protection Office of Pesticide Programs Agency

Antimicrobials Division (AD)

October 13, 2011

DP BARCODE: 392462

MRID: N/A

SUBJECT: Virkon® S

REG. NO.: 71654-6

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [] End-use Product [X] OR

INGREDIENTS:

PC Code(s) CAS Number Active Ingredient(s): 013905 7647-14-5 Sodium chloride

063604 10058-23-8 Potassium peroxymonosulfate

TEST LAB: N/A

SUBMITTER: E. I. Dupont De Nemours and Company

GUIDELINE: Product Chemistry

ORGANIZATION: AD\PSB\CTT

REVIEWER: Lynette T. Umez-Eronini

APPROVED BY: Karen P. Hicks

APPROVED DATE: October 13, 2011

COMMENT:

BACKGROUND:

On behalf of the Registrant, E. I. DuPont De Nemours and Company, the Consultant, DuPont Chemicals Fluoroproducts, has submitted an amendment to add seven alternate formulations with substituting fragrances at less than 1% in an end-use product, Virkon® S. The product is a disinfectant and virucide that is used in cleaning and disinfecting industrial, animal, and agricultural facilities and is produced by a non-integrated system.

The original data package included:

- A copy of a letter from the applicant's representative to EPA, dated July 6, 2011.
- A copy of a Transmittal Document, pin-punched July 18, 2011.
- EPA Form 8570-1 (Amendment), dated July 6, 2011.
- Seven alternate Confidential Statements of Formula (CSFs), dated June 14, 2011:



- A copy of Substitute Inert Ingredients (See: Supplement to <u>Confidential Statement of Formula EPA Form Number 8570-4</u>, EPA Registration No. 71654-6; Virkon® S, EPA Registration No. 71654-7 Virkon®), dated June 14, 2011
- A copy of Fragrance Component Description. (See: CONFIDENTIAL SUPPLEMENT TO THE CONFIDENTIAL STATEMENT OF FORMULA), dated June 3, 2011.

The product label, dated May 4, 2010 was added to the original data package.

FINDINGS:

- All inert ingredients and fragrances are in the Agency inert data base for nonfood use.
- The nominal concentrations of the active ingredients in the seven alternate formulations #s (1.1, 6.1A, 6.1H, 7.1A, 7.1H, 11.1A and 11.1H) are consistent with the product label, dated May 4, 2011.

CONCLUSION:

The Product Science Branch of Antimicrobials Division finds the submission for 71654-6 to add Alternate CSFs #s (1.1, 6.1A, 6.1H, 7.1A, 7.1H, 11.1A and 11.1H), dated June 14, 2011 to be acceptable.



SEPA United States Environmental Protection Office of Pesticide Programs Agency

Antimicrobials Division (AD)

October, 2011

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA Reg. 71654-6

> Product Name: Virkon® S DP Barcode: 392462

CODE: A362

DATE DUE: October 16, 2011

FROM: Lynette T. Umez-Eronini, Chemist

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

THRU: Karen Hicks, Team Leader

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

TO: Jacqueline Campbell-McFarlane PM#34/Stacey Grigsby

> Regulatory Management Branch I Antimicrobials Division (7510P)

Applicant: E. I. Dupont De Nemours and Company

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	<u>% by wt.</u>
Sodium chloride	1.50
Potassium peroxymonosulfate	21.41
Other Ingredient(s):	_77.09
Total:	100.00

BACKGROUND:

On behalf of the Registrant, E. I. DuPont De Nemours and Company, the Consultant, DuPont Chemicals Fluoroproducts, has submitted an amendment to add seven alternate formulations with substituting fragrances at less than 1% in an end-use product, Virkon® S. The product is a disinfectant and virucide that is used in cleaning and disinfecting industrial, animal, and agricultural facilities and is produced by a non-integrated system.

The original data package included:

- 1. A copy of a letter from the applicant's representative to EPA, dated July 6, 2011
- A copy of a Transmittal Document, pin-punched July 18, 2011
- EPA Form 8570-1 (Amendment), dated July 6, 2011.
- 4. Seven alternate Confidential Statements of Formula (CSFs), dated June 14, 2011:



- 5. A copy of Substitute Inert Ingredients (See: Supplement to Confidential Statement of Formula EPA Form Number 8570-4, EPA Registration No. 71654-6; Virkon® S, EPA Registration No. 71654-7 Virkon®), dated June 14, 2011
- A copy of Fragrance Component Description. (See: CONFIDENTIAL SUPPLEMENT TO THE CONFIDENTIAL STATEMENT OF FORMULA), dated June 3, 2011.

The product label, dated May 4, 2010 was added to the original data package.

FINDINGS:

- All inert ingredients and fragrances are in the Agency inert data base for nonfood use.
- 2. The nominal concentrations of the active ingredients in the seven alternate formulations #s (1.1, 6.1A, 6.1H, 7.1A, 7.1H, 11.1A and 11.1H) are consistent with the product label, dated May 4, 2011.

CONCLUSION:

The Product Science Branch of Antimicrobials Division finds the submission for 71654-6 to add Alternate CSFs #s (1.1, 6.1A, 6.1H, 7.1A, 7.1H, 11.1A and 11.1H), dated June 14, 2011 to be acceptable.

DuPont Chem. Jis & Fluoroproducts P. O. Box 80402 Wilmington, DE 19880-0402



July 6, 2011

US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Campbell-McFarlane (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: Virkon® S; EPA Registration No. 71654-6
Application for Accelerated Review of Amended Formulas - Fragrance Alternates

Dear Ms. Campbell-McFarlane,

Please consider this letter and attachments as our application to add seven additional alternate formulations substituting fragrance at less than 1% in accordance with PR Notice 98-10 V.A.2; <u>ACCELERATED REVIEW OF MINOR FORMULATION CHANGES</u> The intent is to add seven new formulas, not to amend any of the previously accepted alternate formulas.

Should you have any questions, feel free to call or e-mail.

Sincerely,

Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@usa.dupont.com

Duns in Ster

(978) 335-8055 CELL

(978) 312-1160

TRANSMITTAL DOCUMENT

Attention:

Ms. Jacqueline Campbell- McFarlane Antimicrobials Division (7510P) US Environmental Protection Agency Office of Pesticide Programs 2777 South Crystal Drive Arlington, VA 22202-4501

NAME AND ADDRESS OF SUBMITTER

E.I.du Pont de Nemours and Company DuPont Chemicals & Fluoroproducts Experimental Station (ESL402/3224C) P. O. Box 80402 Wilmington, DE 19880-0402

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED-

Application to add Alternate Formulations under PR Notice 98-10 V.A.2. ACCELERATED REVIEW OF MINOR FORMULATION CHANGES

"Virkon® S"; EPA Registration No. 71654-6

Seven NEW Alternate Fragrance CSFs --

Transmittal Date: July 6, 2011

Transmittal Material:

Volume 1 Administrative Materials

-Cover Letter l page
-Application for Pesticide Registration (EPA Form 8570-1) l page
-Transmittal Document this page



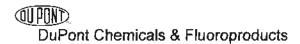
- Substitute Inert Ingredients

l page

- Fragrance Component Description

1 page

Pages 109-110 - *Confidential Statements of Formula may be entitled to confidential treatment*



July 6, 2011

US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Campbell-McFarlane (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: Virkon® S; EPA Registration No. 71654-6
Application for Accelerated Review of Amended Formulas - Fragrance Alternates

Dear Ms. Campbell-McFarlane,

Please consider this letter and attachments as our application to add seven additional alternate formulations substituting fragrance at less than 1% in accordance with PR Notice 98-10 V.A.2; <u>ACCELERATED REVIEW OF MINOR FORMULATION CHANGES</u> The intent is to add seven new formulas, not to amend any of the previously accepted alternate formulas.

Should you have any questions, feel free to call or e-mail.

Sincerely,

Thomas C. McEntee

Product Registration Manager

Thomas.C.McEntee@usa.dupont.com

The Unio (in the.

(978) 335-8055 CELL

(978) 312-1160

TRANSMITTAL DOCUMENT

Attention:

Ms. Jacqueline Campbell- McFarlane Antimicrobials Division (7510P) US Environmental Protection Agency Office of Pesticide Programs 2777 South Crystal Drive Arlington, VA 22202-4501

NAME AND ADDRESS OF SUBMITTER

E.I.du Pont de Nemours and Company DuPont Chemicals & Fluoroproducts Experimental Station (ESL402/3224C) P. O. Box 80402 Wilmington, DE 19880-0402

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED-

Application to add Alternate Formulations under PR Notice 98-10 V.A.2. ACCELERATED REVIEW OF MINOR FORMULATION CHANGES

"Virkon® S"; EPA Registration No. 71654-6

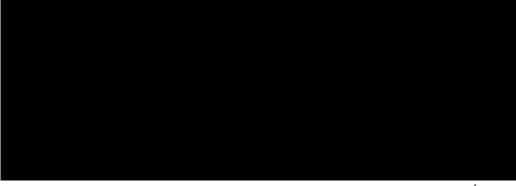
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l page



≎EPA	Environmenta	United States Il Protection Unington, DC 20		x	Registra Amenda Other		OPP Identifier Number
		Application	on for Pesticid	e - Section	ı I		
1. Company/Product Numbe 71654-6	r		1	oduct Manager ne Campbell-Mo		1	oposed Classification
4. Company/Product (Name) Virkon(R) S		PM# 34	PM#		1.050.5100		
5. Name and Address of Ap E.I. du Pont de Nemours and C Dupont Chemicals & Fluoropro Experimental Station (ESL 402 Wilmington, DE 19880-0402 Check if this	company ducts P. O. Box 80402	ade)	(b)(i), my to: EPA Re		milar or iden	tical in co	FIFRA Section 3(c)(3) emposition and labeling
			Section - II				
Resubmission in responsible Resubmission in responsibility in responsi	ponse to Agency lette below. nal page(s) if necessa	πγ. (For sectio	on I and Section (I.)	Finel printed leb Agency letter d "Me Too" Appli Other - Explain	ated cation. below.		OF MINOR
Material This Product Wil	ll Be Peckaged In:		Section - III				
Child-Resistant Peckaging Yes No	Unit Packaging X Yes X No		Water Soluble Pa		2. Type of	Metal Plastic Glass Paper	
* Certification must be submitted	If "Yes" Unit Packaging wg	No. per t, container	If "Yes" Package wot	No. per container		-	Specify)
3. Location of Net Contents X Label	Information Container	1	oteil Container	1 .	Location of La	bel Direction	ons
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		Stone	Section - IV				
1. Contact Point (Complete	items directly below	for identificati			ecessary, to D	rocess this	s application.)
Name Thomas C. McE			Titte Product Regis			Telephon	ne No. (Include Area Code) 95 6856
I certify that the state I acknowledge that a both under applicable	ny knowlinglly false o		d all attachments the				6. Detr Application Received (Gtainped)
2. Signature Man	us (In E	th	3. Title Product R	egistrat	ion Maı	nager	
4. Typed Name 5.			July 6, 2	011			

DuPont Ch cals & Fluoroproducts P. O. Box 80402 Wilmington, DE 19880-0402



DuPont Chemicals & Fluoroproducts

May 5, 2011

Document Processing Desk Antimicrobials Division (7510P) US Environmental Protection Agency Office of Pesticide Programs; Room S-4900 Ms. Jacqueline Campbell-McFarlane (PM34) 2777 South Crystal Drive Arlington, VA 22202-4501 In accordance with PR Notice 82-2.
Based on Draft Labeling Dated
5/4/201/

Subject:

Virkon® S, EPA Registration Number 71654-6

Final printed labeling

Dear Ms. Campbell-McFarlane,

In response to the May 4, 2011 letter for the EPA stamped accepted master label for the above referenced product, I have enclosed the following:

- ➤ EPA cover letter dated May 4, 2011
- ➤ 3 copies of the 10LB booklet label 8 pages each
- ➤ 3 copies of the 1.3 oz sachet label 1 page each
- ➤ 3 copies of the 50 X 5 gram tablets container label 1 page each
- ➤ 3 copies of the Data sheet/IFU with fogging instructions 8 pages each
- > 3 copies of the Data sheet/IFU without fogging instructions 8 pages each

If you have any questions, please feel free to call me at 302.695.2328 or e-mail me at susan.m.schaner@usa.dupont.com.

Sincerely,

Susan M. Schaner

Sween K Schann

Regulatory Coordinator

DuPont Chemicals & Fluoroproducts

Enclosures



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAY 4 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Susan M. Schaner
E.I. du Pont de Nemours and Company
Dupont Chemicals & Fluoroproducts,
P.O. Box 80402
Wilmington, DE 19880-0402

Subject:

Virkon(R) S

EPA Registration Number: 71654-6 Application Date: March 31, 2011 Receipt Date: April 5, 2011

Dear Ms. Schaner:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA), as amended, is acceptable.

Proposed Amendment

Updating Label per Agency Letter Dated 7/15/10 and Meeting on 3/30/11

General Comments

Submit 3 copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at <u>campbell-mcfarlane.jacqueline@epa.gov</u> or Stacey Grigsby by telephone at (703) 308-6440 or by email at <u>grigsby.stacey@epa.gov</u>. When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission in order to facilitate processing.

Sincerely,

acqueline Carhbbell-McFarlane

Product Manager 34

Regulatory Management Branch II Antimicrobials Division (7510P)

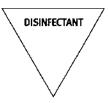
Enclosure: stamped label



Virkon® S

DISINFECTANT AND VIRUCIDE





Tablet and Powder Form

Effective against Viruses Bacteria, Fungi

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate	21.41%
Sodium chloride	1.50%
DTHER INGREDIENTS	77.09 %
TDTAL INGREDIENTS:	100.00%
Equivalent to 9.75% Available Chlor	rine

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN :

DANGER / PELIGRO

See Inside Booklet For Additional Precautionary Statements,

PRECAUTIONARY STATEM TS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts — Not Approved for this use in California), and mycoplasma.

Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm (200 ppm in California) AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hardwater," "no soil load," and "use 2% solution".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: For pails, jugs, bottles:
Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

For sachet, pouch, packet, bag: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals. For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli
Klebsiella pneumoniae
Mycoplasma gallisepticum
Mycoplasma hyopneumoniae
Pasteurella multocida
Pseudomonas aeruginosa
Salmonella enterica
Salmonella typhimurium
Shigella sonnei
Staphylococcus aureus
Staphylococcus epidermidis

Staphylococcus epidermidis
Streptococcus pyogenes
Streptococcus suis
Not approved in California for use against

the following bacteria:

Bordetella avium

Bordetella bronchiseptica

Fistulous withers (Poll Evil)

Haemophilus somnus

Helicobacter pylori

Listeria monocytogenes

Moraxella bovis (Pink Eye)

Mycoplasma mycoides Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Streptococcus equi (Strangles)

Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Equine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against the following viruses: Adenovirus Pneumonia African Horse Sickness Virus African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water) Bovine Polyoma Virus Bovine Pseudocowpox Virus

Bovine Viral Diarrhea Virus (no hard water)

Calf Rotavirus (nd rd water) Canine Coronavirus Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus Distemper Virus

Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp Fever)

Equine Arteritis Virus (no hard water)
Equine Contagious Abortion Virus
Equine Papillomatosis Virus
Equine Influenza Virus (The Cough)

Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus

(no hard water)

Leptospira Canicola Virus Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus PCV2 Virus (PMWS)

Porcine Parvovirus
Porcine Reproductive and

Respiratory Syndrome Virus (PRRS)

Pseudorabies Virus (Aujesky's Disease)

(no hard water) Rotaviral Diarrhea Virus Swine Influenza Virus Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi:

Aspergillus fumigatus

Fusarium moniliforme

Microsporum canis

Trichophyton spp. (Ringworm)

Trichophyton spp. (Mud Fever)

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PLANT PATHOGENS

Not approved in California for use against plant pathogens:

Alternaria solani

Botrytis cinera

Colletotrichum coccodes

Didymella bryoniae

Fusarium oxysporum

Fusarium solani

Penicillium oxalicum

Phomopsis sclerotioides

Pyrenochaeta lycoopersici

Pythium aphanidermatium

Rhizoctonia solani

Sclerotinia sclerotiorum

Thielaviopsis basicola

Verticillium dahliae

Xanthomonas axonopodis

VIRKON®S DILUTION CHART

Fill container with desired amount of water and add Virkon®S powder or tablet(s) to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S for long periods — 10 minutes is maximum necessary contact time. Dne gallon of solution is sufficient to treat 135 square feet.

	o.5% Solution*	1% Solution	2% Solution
1 Gallon		1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

Quantity of Water	o.5% Solution*	1% Solution	2% Solution
1 Pint		1 Tablet	2 Tablets
1 Gallon	4 Tablets	8 Tablets	16 Tablets

^{*}The 0.5% solution is currently not approved for use in California.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INST 'CTIONS – POULTRY AND FARM PREMISES:

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stall, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the disinfecting solution for a period of 10 minutes.
- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 8. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

FOGGING (WET MISTING) INSTRUCTIONS

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. Close room off, so fog is confined to room to be treated. Prepare a Virkon®S dilution of 0.5% to 2.0% in water (1:200 to 1:50) - (refer to specific directions for Poultry, Swine, Bovine, Greenhouse and Aquaculture uses.). Apply use-diluted solution at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or

room during fogging. If the buing or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts, not approved for use in California), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) INSTRUCTIONS – POULTRY AND RATITE PRODUCTION: Follow

General Instructions to remove poultry and/or animals from room to be treated. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. Close room off, so fog is confined to room to be treated. Prepare a Virkon® S at dilution of 1.0% to 2.0% in water (1:100 to 1:50). Apply at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do

not allow people t —reathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a self-contained respirator approved by NIDSH/MSHA, goggles, long shirt sleeves, and pants.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon®S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. 120

FOGGING (WET MISTING) – S' IE: Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EQUINE PRODUCTION BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Straphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme, Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S Disinfectant and Virucide* solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

To Clean Blankets addle Pads and Rugs: Not an approved use in Caufornia: Using a 1% solution of Virkon®S, Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms:

Bacteria of Moraxella bovis; Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) – BOVINE: Follow General Instructions to remove poultry and/or animals from room to be treated. Use a 0.5% -1.0% solution of Virkon®S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). *Not approved in California for use against the following organisms:* Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon®S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods 10 minutes is maximum contact time.

GREENHOUSES AND HORTICULTURE

Virkon®S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds or soil.

Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

FOR SURFACES AND EQUIPMENT

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3. Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.
- Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

FOR CLEAN NON- ROUS SURFACES

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon S per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits.

For evaporative coolers: Not approved for use in California. Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon S for every gallon of cooler water. Virkon®S may also be used to disinfect irrigation tanks and lines. Not an approved use in California. Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

FOGGING (WET MISTING) INSTRUCTIONS — GREENHOUSE/HORTICULTURE: Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

AQUACULTURE

(Not approved for this use in California): Virkon®S intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon®S may also be used in foot dips. Virkon®S must not be applied directly to water.

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon®S solution followed by a water rinse.

FOGGING (WET MISTING) INSTRUCTIONS –
AQUACULTURE: Use a 0.5% -1.0% solution of
Virkon® S for fogging (wet misting) operation\$26 a

supplemental measure after r lar cleaning and disinfecting procedures. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use. Refer to Fogging (Wet Misting instructions).

EMERGENCY DISEASE CONTROL

(ANIMAL HEALTH) (Not approved for this use in California): Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon®S to clean and disinfect agricultural facilities and equipment, military facilities and equipment, airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harbouring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers). Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

(Not approved for this use in California):
The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the

dilution rate spec' I below. If the threat is known and limited to the organism below, Virkon®S may be used at the following dilution rate:

	Dilution rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon®S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways.

Virkon®S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/ boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon®S to pool on surfaces that may be within reach of animals. Do not allow Virkon®S to come into direct contact with people. Allow Virkon®S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

Manufactured for:
E. I. du Pont de Nemours and Company
DuPont Animal Health Solutions
PO Box 80402
Wilmington, DE 19880-0402 USA

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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Virkon® S

DISINFECTANT AND VIRUCIDE



Tablet and Powder Form

Effective against Viruses Bacteria, Fungi

ACTIVE INGREDIENTS:

	100.00%
OTHER INGREDIENTS	. 77.09%
Sodium chloride	1.50%
Potassium peroxymonosulfate	21.41%

Equivalent to 9.75% Available Chlorine



FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye, Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 winutes. Call a poison control center or doctor for further treatment advice.

UITH FOCE

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN **DANGER / PELIGRO**

See Inside Booklet For Additional Precautionary Statements

PRECAUTIONARY STATEA ITS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts – Not Approved for this use in California), and mycoplasma.

Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm (200 ppm in California) AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hardwater," "no soil load," and "use 2% solution".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIOE STORAGE: For pails, jugs, bottles:
Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

For sachet, pouch, packet, bag: Store in a cool dry place. Keep out of reach of children: Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children.

Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Mycoplasma hyopneumoniae

Pasteurella multocida Pseudomonas aeruginosa Salmonella enterica Salmonella typhimurium

Shigella sonnei

Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against

the following bacteria: Bordetella avium

Bordetella bronchiseptica
Fistulous withers (Poll Evil)
Haemophilus somnus
Helicobacter pylori
Listeria monocytogenes
Moraxella bovis (Pink Eye)

Mycoplasma mycoides

Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Streptococcus equi (Strangles)

Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus

Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Equine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against

the following viruses:
Adenovirus Pneumonia
African Horse Sickness Virus
African Swine Fever Virus

(tested with 1% soil load and 342 ppm hard water)

Bovine Polyoma Virus

Bovine Pseudocowpox Virus

Bovine Viral Diarrhea Virus (no hard water)

Calf Rotavirus (n 3rd water)

Canine Coronavirus

Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus

Distemper Virus

Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp Fever)

Equine Arteritis Virus (no hard water)

Equine Contagious Abortion Virus

Equine Papillomatosis Virus Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus

(no hard water)

Leptospira Canicola Virus

Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus

PCV2 Virus (PMWS) Porcine Parvovirus

Porcine Reproductive and

Respiratory Syndrome Virus (PRRS)

Pseudorabies Virus (Aujesky's Disease)

(no hard water) Rotaviral Diarrhea Virus Swine Influenza Virus

Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against

the following fungi: Aspergillus fumigatus Fusarium moniliforme Microsporum canis

Trichophyton spp. (Ringworm)
Trichophyton spp. (Mud Fever)

PLANT PATHOGENS

Not approved in California for use against plant pathogens:

Alternaria solani Botrytis cinera

Colletotrichum coccodes

Didymella bryoniae

Fusarium oxysporum

Fusarium solani

Penicillium oxalicum

Phomopsis sclerotioides

Pyrenochaeta lycoopersici

Pythium aphanidermatium

Rhizoctonia solani

Sclerotinia sclerotiorum

Thielaviopsis basicola

Verticillium dahliae

Xanthomonas axonopodis

VIRKON®S DILUTION CHART

Fill container with desired amount of water and add Virkon®S powder or tablet(s) to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S for long periods – 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 square feet.

	o.5% Solution*	1% Solution	2% Solution
1 Gallon		1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

	o.5% Solution*	1% Solution	2% Solution
1 Pint		1 Tablet	2 Tablets
1 Gallon	4 Tablets	8 Tablets	16 Tablets

^{*}The 0.5% solution is currently not approved for use in California.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INST PICTIONS – POULTRY AND FARM PREMISES:

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stall, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the disinfecting solution for a period of 10 minutes.
- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

FOGGING (WET MISTING) INSTRUCTIONS

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. Close room off, so fog is confined to room to be treated. Prepare a Virkon®S dilution of 0.5% to 2.0% in water (1:200 to 1:50) - (refer to specific directions for Poultry, Swine, Bovine, Greenhouse and Aquaculture uses.). Apply use-diluted solution at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or

room during fogging. If the k ling or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

POULTRY PRODUCTION AND RATITE PRODUCTION CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts, not approved for use in California), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) INSTRUCTIONS -**POULTRY AND RATITE PRODUCTION: Follow** General Instructions to remove poultry and/or animals from room to be treated. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. Close room off, so fog is confined to room to be treated. Prepare a Virkon® S at dilution of 1.0% to 2.0% in water (1:100 to 1:50). Apply at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room, Do

not allow people—breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

BROILER/BREEDER HDUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon®S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. 128

FOGGING (WET MISTING) – VINE: Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EQUINE PRODUCTION BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of: Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Straphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme. Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eve), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S Disinfectant and Virucide* solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

To Clean Blank Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S, Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis; Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) – BOVINE: Follow General Instructions to remove poultry and/or animals from room to be treated. Use a 0.5% -1.0% solution of Virkon®S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% so on of Virkon®S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods 10 minutes is maximum contact time.

GREENHOUSES ANO HORTICULTURE

Virkon®S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds or soil.

Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

FOR SURFACES AND EQUIPMENT

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3. Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.
- 4. Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

FOR CLEAN NO' 'OROUS SURFACES

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon S per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits.

For evaporative coolers: Not approved for use in California. Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon S for every gallon of cooler water. Virkon®S may also be used to disinfect irrigation tanks and lines. Not an approved use in California. Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

FOGGING (WET MISTING) INSTRUCTIONS –
GREENHOUSE/HORTICULTURE: Use a 0.5% -1.0%
solution of Virkon® S for fogging (wet misting)
operations as a supplemental measure after regular
cleaning and disinfecting procedures. Not approved
in California for fogging at dilutions less than 1%.
Fog (wet mist) until the area is moist using
automatic foggers according to manufacturer's
use directions. Rinse foggers and sprayers with
potable water following use. Refer to Fogging
(Wet Misting instructions).

AQUACULTURE

(Not approved for this use in California): Virkon®S intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon®S may also be used in foot dips. Virkon®S must not be applied directly to water.

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon®S solution followed by a water rinse.

FOGGING (WET MISTING) INSTRUCTIONS –
AQUACULTURE: Use a 0.5% -1.0% solution of
Virkon® S for fogging (wet misting) operation\$30 a

supplemental measure afte gular cleaning and disinfecting procedures. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use. Refer to Fogging (Wet Misting instructions).

EMERGENCY DISEASE CONTROL

(ANIMAL HEALTH) (Not approved for this use in California): Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon®S to clean and disinfect agricultural facilities and equipment, military facilities and equipment, airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harbouring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers). Spray Virkon®S at 1% solution to disinfect and clean walls. ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

(Not approved for this use in California):
The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the

dilution rate spr ied below. If the threat is known and limited to the organism below, Virkon®S may be used at the following dilution rate:

Organism	Dilution rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon®S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways.

Virkon®S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/ boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon®S to pool on surfaces that may be within reach of animals. Do not allow Virkon®S to come into direct contact with people. Allow Virkon®S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

Manufactured for:
E. I. du Pont de Nemours and Company
DuPont Animal Health Solutions
PO Box 80402
Wilmington, DE 19880-0402 USA

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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Virkon® S

DISINFECTANT AND VIRUCIDE



Tablet and Powder Form

Effective against Viruses Bacteria, Fungi

ACTIVE INGREDIENTS:

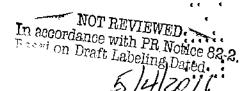
 Potassium peroxymonosulfate
 21.41%

 Sodium chloride
 1.50%

 OTHER INGREDIENTS
 77.09%

 TOTAL INGREDIENTS:
 100.00%

Equivalent to 9.75% Available Chlorine



FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control
center or doctor immediately for treatment
advice. Have person sip a glass of water if
able to swallow. Do not induce vomiting
unless told to do so by the poison control
center or doctor. Do not give anything by
mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN DANGER / PELIGRO

See Inside Booklet For Additional Precautionary Statements

PRECAUTIONARY STATEM! S

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts — Not Approved for this use in California), and mycoplasma.

Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm (200 ppm in California) AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hardwater," "no soil load," and "use 2% solution".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: For pails, jugs, bottles:
Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

For sachet, pouch, packet, bag: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals. For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Cool dry place. Keep out of reach of children.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS:ANIMAL AND ZOONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Mycoplasma hyopneumoniae

Pasteurella multocida Pseudomonas aeruginosa Salmonella enterica Salmonella typhimurium

Shigella sonnei

Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against

the following bacteria: Bordetella avium

Bordetella bronchiseptica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye) Mycoplasma mycoides

Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Streptococcus equi (Strangles)

Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus

Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Eauine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against

the following viruses: Adenovirus Pneumonia African Horse Sickness Virus African Swine Fever Virus

(tested with 1% soil load and 342 ppm hard water)

Bovine Polyoma Virus Bovine Pseudocowpox Virus

Bovine Viral Diarrhea Virus (no hard water)

Calf Rotavirus (no . 1 water)

Canine Coronavirus

Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus

Distemper Virus Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp, Feyer,)

Equine Arteritis Virus (no hard water)

Equine Contagious Abortion Virus

Equine Papillomatosis Virus

Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus

(no hard water)

Leptospira Canicola Virus

Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus PCV2 Virus (PMWS) Porcine Parvovirus

Porcine Reproductive and

Respiratory Syndrome Virus (PRRS) Pseudorabies Virus (Aujesky's Disease)

(no hard water) Rotaviral Diarrhea Virus Swine Influenza Virus

Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi:

Aspergillus fumigatus Fusarium moniliforme Microsporum canis

Trichophyton spp. (Ringworm) Trichophyton spp. (Mud Fever)

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PLANT PATHOGENS

Not approved in California for use against plant pathogens:

Alternaria solani

Botrytis cinera

Colletotrichum coccodes

Didymella bryoniae

Fusarium oxysporum

Fusarium solani

Penicillium oxalicum

Phomopsis sclerotioides

Pyrenochaeta lycoopersici

Pythium aphanidermatium

Rhizoctonia solani

Sclerotinia sclerotiorum

Thielaviopsis basicola

Verticillium dahliae

Xanthomonas axonopodis

VIRKON®S DILUTION CHART

Fill container with desired amount of water and add Virkon®S powder or tablet(s) to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S for long periods – 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 square feet.

-	o.5% Solution*	1% Solution	2% Solution
1 Gallon		1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

_	o.5% Solution*	1% Solution	2% Solution
1 Pint		1 Tablet	2 Tablets
1 Gallon	4 Tablets	8 Tablets	16 Tablets

^{*}The 0.5% solution is currently not approved for use in California.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTR' TIONS – POULTRY AND FARM PREMISES:

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stall, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the disinfecting solution for a period of 10 minutes.
- 6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

FOGGING (WET MISTING) INSTRUCTIONS

All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. Close room off, so fog is confined to room to be treated. Prepare a Virkon®S dilution of 0.5% to 2.0% in water (1:200 to 1:50) - (refer to specific directions for Poultry, Swine, Bovine, Greenhouse and Aquaculture uses.). Apply use-diluted solution at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or

room during fogging. If the buil g or room must be entered, then individuals entering must wear a self-contained respirator approved by NIDSH/MSHA, goggles, long shirt sleeves, and pants.

POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts, not approved for use in California), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) INSTRUCTIONS – POULTRY AND RATITE PRODUCTION: Follow

General Instructions to remove poultry and/or animals from room to be treated. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices. Close room off, so fog is confined to room to be treated. Prepare a Virkon® S at dilution of 1.0% to 2.0% in water (1:100 to 1:50). Apply at an application rate of 1 gallon per 430 ft² of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do

not allow people to sathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must be entered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon®S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus
Pleuropneumoniae and Clostridium perfringens;
Fungi of Trichophyton mentragrophytes (2%).
Not approved in California for use against the
following organisms: Viruses of Hog Cholera,
Swine influenza, Porcine Parvovirus, Porcine
Reproductive and Respiratory Syndrome Virus
(PRRS); Pseudorabies, Rotoviral Diarrhea, African
Swine Fever, Fungi of Fusarium moniliforme, Foot
and Mouth Disease and Bacteria of Treponema
hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) – S\ iE: Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EQUINE PRODUCTION

BROAO SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%). Pseudomonas aeruginosa, Salmonella typhimurium and Straphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme. Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon® S Disinfectant and Virucide* solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

To Clean Blankets ddle Pads and Rugs: *Not an approved use in California*: Using a 1% solution of Virkon®S, Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis; Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) – BOVINE: Follow General Instructions to remove poultry and/or animals from room to be treated. Use a 0.5% -1.0% solution of Virkon®S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution f Virkon®S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods 10 minutes is maximum contact time.

GREENHOUSES AND HORTICULTURE

Virkon®S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds or soil.

Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

FOR SURFACES AND EQUIPMENT

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3. Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.
- 4. Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

FOR CLEAN NON-P DUS SURFACES

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon S per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits.

For evaporative coolers: Not approved for use in California. Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon S for every gallon of cooler water. Virkon®S may also be used to disinfect irrigation tanks and lines. Not an approved use in California. Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

FOGGING (WET MISTING) INSTRUCTIONS — GREENHOUSE/HORTICULTURE: Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

AQUACULTURE

(Not approved for this use in California): Virkon®S intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon®S may also be used in foot dips. Virkon®S must not be applied directly to water.

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon®S solution followed by a water rinse.

FOGGING (WET MISTING) INSTRUCTIONS –
AQUACULTURE: Use a 0.5% -1.0% solution of Virkon® S for fogging (wet misting) operations 38 a

supplemental measure after re_____ ar cleaning and disinfecting procedures. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with water following use. Refer to Fogging (Wet Misting instructions).

EMERGENCY DISEASE CONTROL

(ANIMAL HEALTH) (Not approved for this use in California): Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon®S to clean and disinfect agricultural facilities and equipment, military facilities and equipment, airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harbouring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers). Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S for long periods - 10 minutes is maximum contact time.

OISINFECTION LIMITEO TO SPECIFIC AND KNOWN OISEASE ORGANISM PCV2 VIRUS

(Not approved for this use in California):
The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the

dilution rate specif below. If the threat is known and limited to the organism below, Virkon®S may be used at the following dilution rate:

- 15	Dilution rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon®S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways.

Virkon®S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/ boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon®S to pool on surfaces that may be within reach of animals. Do not allow Virkon®S to come into direct contact with people. Allow Virkon®S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

Manufactured for:
E. I. du Pont de Nemours and Company
DuPont Animal Health Solutions
PO Box 80402
Wilmington, DE 19880-0402 USA

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. See leaflet for additional directions for use. Virkon® S DISINFECTANT AND VIRUCIDE, Fill container with desired amount of water and add Virkon® S Powder to achieve recommended solution concentration. For a 1% solution, empty one 1.3 oz. sachet into 1 gallon of water. A 1% solution of Virkon®S is hed as a "one step" cleaning and disinfecting ar all hard, non-porous surfaces, equipment. instruments, utensils and cages associated with Veterinary Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animals quarters, grooming facilities, kennels and animal transportation vehicles. Solutions are stable for 7 days. Do not immerse metal objects in use-diluted solution for long periods -10 minutes is the maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice. If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.

If Swallowed: Call a Poison Control Center or doctor immed: Thy for treatment advice. Have person sip a glass of wa the ble to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Hot Line Number: For 24-hour emergency information on this product, call 1-800-441-3837 (US & Canada) or 1-302-774-1139 (all other areas).



Virkon® S DISINFECTANT AND VIRUCIDE



Net Contents: 1.3 oz. Powder Form

Effective against Viruses, Bacteria & Fungi

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

See Back Panel for Additional Precautions

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate	21.41%
Sodium Chloride	
OTHER INGREDIENTS	
TOTAL	100.0%

Equivalent to 9.75% Available Chlorine

PRECAUTIONARY STATEMENTS

HAZAROS TO HUMANS AND DOMESTIC ANIMAL DANGER. Powder is corrosive. Causes irreversible

eye damage or skin burns. Harmful if swallowed o absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and lor pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminates clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

Do not contaminate water, food, or feed by storage and disposal. PESTICIDE STORAGE:

For sachet: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

Manufactured for: E. I. du Pont de Nemours and Company PO Box 80402, Wilmington, DE 19880-0402 Questions? Call 1 800 441-7515

US Patent No. 4822512 EPA Reg. No. 71654-6 EPA Est. No. 62432-EN-001

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In accordance with PR Notice 82-2 Based on Draft Labeling Dated 5/4/2011

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. See leaflet for additional directions for use. Virkon® \$ DISINFECTANT AND VIRUCIDE, Fill container with desired amount of water and add Virkon® S Powder to achieve recommended solution concentration. For a 1% solution, empty one 1.3 oz. sachet into 1 callon of water, A 1% solution of Virkon®S is ded as a "one step" cleaning and disinfecting or all hard, non-porous surfaces, equipment. instruments, utensils and cages associated with Veterinary Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animals quarters, grooming facilities, kennels and animal transportation vehicles. Solutions are stable for 7 days. Do not immerse metal objects in use-dijuted solution for long periods -10 minutes is the maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft.

FIRST AID. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice. If on Skin or Clothing: Take off contaminated clothing, Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.

If Swallowed: Call a Poison Control Center or doctor. immediately for treatment advice. Have person sip a glass of wa ble to swallow. Do not induce vamiting unless told to go so by the paison control center or doctor. Do not give anything by mouth to an unconscious person. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Hot Line Number: For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).



Virkon[®] S DISINFECTANT AND VIRUCIDE



Net Contents: 1.3 oz. Powder Form

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

See Back Panel for Additional Precautions

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate 21.41% Equivalent to 9.75% Available Chlorine

Effective against Viruses, Bacteria & Fungi

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMAL DANGER, Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed o absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and lor pants, socks plus shoes and chemical resistant gloves such as water groof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

Do not contaminate water, food, or feed by storage and disposal. PESTICIDE STORAGE:

For sachet: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

Manufactured for:

E. I. du Pont de Nemours and Company PO Box 80402, Wilmington, DE 19880-0402 Questions? Call 1 800 441-7515

US Patent No. 4822512 EPA Reg. No. 71654-6 EPA Est. No. 62432-EN-001

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A00962569//Virks/1.3sachet/Fed, USA/14.04.11/Z



DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. See leaflet for additional directions for use. Virkon® S DISINFECTANT AND VIRUCIDE, Fill container with desired amount of water and add Virkon® S Powder to achieve recommended solution concentration. For a 1% solution, empty one 1.3 oz. sachet into I callon of water, A 1% solution of Virkon®S is recomminded as a "one step" cleaning and disinfecting or all hard, non-porous surfaces, equipment, instruments, utensils and cages associated with Veterinary Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animals quarters, grooming facilities, kennels and animal transportation vehicles. Solutions are stable for 7 days. Do not immerse metal objects in use-diluted solution for long periods -10 minutes is the maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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If Swallowed: Call a Poison Control Center or doctor immedia**Iy for treatment advice. Have person sip a glass of wa! ble to swallow. Do not induce vomiting unless told to au so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Hot Line Number: For 24-hour emergency information on this product, call 1-800-441-3337 (US & Canada) or 1-302-774-1139 (all other areas).



Virkon® S DISINFECTANT AND VIRUCIDE



Net Contents: 1.3 oz. Powder Form

Effective against Viruses, Bacteria & Fungi

KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

See Back Panel for Additional Precautions

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate	. 21.41%
Sodium Chloride	
OTHER INGREDIENTS	.77.09%
TOTAL	
Equivalent to 9.75% Available Chlorine	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMAL DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and lor pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use-diluted solution.

Do not contaminate water, food, or feed by storage and disposal. PESTICIDE STORAGE:

For sachet: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

Manufactured for:

E. I. du Pont de Nemours and Company PO Box 80402, Wilmington, DE 19880-0402 Questions? Call 1 800 441-7515

US Patent No. 4822512 EPA Reg. No. 71654-6 EPA Est. No. 62432-EN-001

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filrections for tise

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Virkon®S Dilution Fill container with desired amount of water and add Virkon®S tablet to achieve recommended solution concentration. For a 1% solution, add one (1) tablet to one pint of water.

Poultry, Swine, Equine, Bovine production - Broad Spectrum Disinfectant

Companion animals Use a 1% solution of Virkon* S as a "one step" cleaning and disinfecting procedure fremove gross fifth and heavy soil deposits before application of the disinfecting/cleaning solution) for all hard non-porous surfaces, equipment, instruments, utensils and cages. Refer to leaflet.

STORAGE AND DISPOSAL

Do not contaminate water, lood, or feed by storage and disposal.

PESTICIDE STORAGE:

For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace hid after use. Retain dessicant conister with product during storage. Do not mix this product with other chemicals.
PESTICIDE DISPOSAL: Pesticide wastes may be hazardous - refer to product leaflet for pesticide disposal

instructions.
CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container - refer to product leaflet for container disposal instructions.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosivo statement refers to powder only not in use-diluted solution.

Manufactured for: E. I. du Pont de Nemours and Company

DuPort Annual Health Solutions

PD Box 80402, Wilmington, DE 19860-0402 USA Bueshons? Call 1 800 441-7515 Butside the US, contact: 1:302-774-1009

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Virkon[®] S





KEEP OUT OF REACH OF CHILDREN

DANGER/ **PELIGRO**

See side/back panel for additional precautions and leaflet for additional directions for use

NET CONTENTS: 9 OZ (50 X 0.180Z TABLETS)



Effective against viruses, bacteria, fungi

Tablet format

ACTIVE INGREDIENTS: Potassium peroxymonosulfate Sodium chlorida OTHER INGREDIENTS TOTAL

21.41% 1.50% 77.09% 100.00%

Equivalent to 9.75% Available Chlorine

First Ald

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.

If Swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vemiting unless told to do so by the poison control center or dactor. Do not give anything by mouth to an unconscious person

For 24-hour emergency information on this product, call 1-800-441-3637. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Reg No. 71654-6

EPA Est No. 62432-EN-001



Directions for tise

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Virkon®S Dilution Fill container with desired amount of water and add Virkon®S tablet to achieve recommended solution concentration. For a 1% solution, add one (1) tablet to one pint of water.

Poultry, Swine, Equine, Bovine production - Broad Spectrum Disinfectant

Companion animals Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure (remove gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all hard non-porous surfaces, equipment, instruments, utensils and cages. Refer to leaflet.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. PESTICIDE STORAGE:

For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous - refer to product leaflet for pesticide disposal

instructions.
CONTAINER DISPOSAL: Nonrelillable container. Do not reuse or refill this container - refer to product teaflet for container disposal instructions.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles for face shield). Wear protective clothing flong sleeve shirt and long parts, socks plus shoes and chemical resistant gloves such as water pool gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

Manufactured for: E. I. du Pont de Nemours and Company

DuPont Animal Health Solutions

PD Box 80402, Wilmington, DE 15880 0402 USA

Unestions? Call 1-800-441-7515 Outside the US, contact 1-307-774-1000

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Virkon[®] S

Effective against viruses, bacteria, fungi

ACTIVE INGREDIENTS:

Potassium peraxymonosulfate Sodium chloride OTHER INGREDIENTS TOTAL

Equivalent to 9.75% Available Chlorine

First Ald

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minute: Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.

If Swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person

For 24-hour emergency information on this product, call 1-800-441-3637. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Reg No. 71654-6

EPA Est No. 82432-EN-001

21.41%

1.50%

77.09%

100.00%

DISINFECTANT KEEP OUT OF REACH

DANGER/ **PELIGRO**

OF CHILDREN

See side/back panel for additional precautions and leaflet for additional directions for use

NET CONTENTS: 9 0Z (50 X 0.1802 TABLETS)





Directions for Use

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Virkon®S Dilution Fill container with desired amount of water and add Virkon®S tablet to achieve recommended solution concentration. For a 1% solution, add one (1) tablet to one pint of water.

Poultry, Swine, Equine, Bovine production - Broad Spectrum Disinfectant

Companion animals Use a 1% solution of Virkon® S as a "one step" cleaning and disinfecting procedure fremove gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all hard non-porous surfaces, equipment, instruments, utensils and cages. Refer to leaflet.

STORAGE AND DISPOSAL

Do not contaminate water, lood, or feed by storage and disposal.

PESTICIDE STORAGE:

For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous - refer to product leaflet for pesticide disposal instructions.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or relill this container - refer to product leaflet for container disposal instructions.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER Powder is corrosive. Causes irreversible eye damage or skin burns, Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleevs shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement releas to powder only not in use-diluted solution.

Manufectured for: E. I. du Pont de Nemours and Company

DuPort Animal Health Solutions
PD Box 88487, Withington, DE 19880-0407 USA.
Duestions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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Virkon[®] S





KEEP OUT OF REACH OF CHILDREN

DANGER/ **PELIGRO**

See side/back panel for additional precautions and leaflet for additional directions for use

NET CONTENTS: 9 0Z (50 X 0.18QZ TABLETS)

Tablet format

Effective against viruses, bacteria, fungi

ACTIVE INGREDIENTS:

21.41% Potassium peraxymonosulfate Sodium chlorida 1 50% OTHER INGREDIENTS 77.09% TOTAL 100 00% Equivalent to 9.75% Available Chlorine

First Aid

If In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for

further treatment advice. If Swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an enconscious person

For 24-hour emergency information on this product, call 1-800-441-3637. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Reg No. 71654-6

EPA Est No. 62432-EN-001

In accordance with PR Notice 82-2. 4/2011
Based on Draft Labeling Dated 5/4/2011



NOT REVIEWED
In accordance with PR Notice 82-2.
Based on Draft Labeling Dated



Virkon®S DISINFECTANT AND VIRUCIDE*

DISINFECTANT

For use in cleaning and disinfecting industrial, animal and agricultural facilities

Powder Form

Effective against Viruses*, Bacteria, and Fungi

ACTIVE INGREDIENTS:

Potassium peroxymonosulfate	21.41%
Sodium Chloride	1.50%
OTHER INGREDIENTS	<u>77.09%</u>
TOTAL INGREDIENTS:	100.00%

Equivalent to 9.75% Available Chlorine

NET CONTENTS: 10LB (4.53KG)

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

See inside booklet for Additional Precautions



EPA REG NO 71654-6 EPA EST. NO. 42291-GA-01





DISINFECTANT AND VIRUCIDE*

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is Corrosive. Causes irreversible eye damage or skin 'ns. Harmful if swallowed or absorbed through the skin. Do not get eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment authority. For guidance, contact your State Water Board or Regional Unice of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S Disinfectant and Virucide* is effective against numerous microorganisms affecting animals: viruses*, gram positive and gram

negative bacteria, fungi (molds and yeasts – *Not Approved for this use in California*), and mycoplasma. Efficacy of the 1% solution against bacteria and viruses* was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hard water," "no soil load," and "use 2% solution."

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Oo not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tankor store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DISINFECTANT AND VIRUCIDE*





EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Pasteurella multocida Pseudomonas aeruginosa ^almonella enterica Jalmonella typhimurium Shiqella sonnei Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against the following bacteria:

Bordetella avium Bordetella bronchiseptica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye) Mycoplasma hyopneumonia Mycoplasma mycoides Pseudomonas mallei (Glanders) Pseudomonas vulgaris Streptococcus equi (Stranales) Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus
Avian Laryngotracheitis Virus
Bovine Adenovirus Type 4
Canine Adenovirus
(Canine Hepatitis)
Canine Parvovirus
Equine Herpes Virus (Type 1)
Equine Herpes Virus (Type 3)
Equine Influenza Virus (Type A)

Feline Calicivirus Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against the following viruses: Adenovirus Pneumonia African Horse Sickness Virus African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water) Bovine Polyoma Virus Bovine Pseudocowpox Virus Bovine Viral Diarrhea Virus (no hard water) Calf Rotavirus (no hard water) Canine Coronavirus Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus Distemper Virus Duck Adenovirus (no hard water) **Duck Enteritis Virus** Egg Drop Syndrome

Adenovirus

Equine Infectious Anemia Virus (Swamp Fever) Equine Arteritis Virus (no hard water) Equine Contagious Abortion Virus Equine Papillomatosis Virus Equine Influenza Virus (The Cough) Feline Herpes Virus Feline Infectious Peritonitis Virus Feline Parvovirus Foot and Mouth Disease Virus Hog Cholera Virus Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus (no hard water) Leptospira Canicola Virus Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus PCV2 Virus (PMWS)

Porcine Parvovirus

Porcine Reproductive and
Respiratory Syndrome
Virus (PRRS)
Pseudorabies Virus (Aujesky's
Disease) (no hard water)
Rotaviral Diarrhea Virus
Swine Influenza Virus
Swine Vesicular Disease Virus
Transmissible Gastroenteritis
Virus (TGE) (no hard water)
Turkey Herpes Virus
(no hard water)
Turkey Rhinotracheitis Virus
Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi:

Aspergillus fumigatus

Fusarium moniliforme

Microsporum canis

Mycoplasma hyopneumonia

Trichophyton spp. (Ringworm)

Trichophyton spp. (Mud Fever)

Virkon®S DISINFECTANT AND VIRUCIDE*



Virkon°S DISINFECTANT AND VIRUCIDE* DILUTION CHART

Fill container with desired amount of water and add Virkon*S Disinfectant and Virucide* to achieve solution concentration.

plutions are stable for 7 days. Do not soak metal objects in Virkon[®] S disinfectant and Virucide* for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. Measuring cup provided.

Quantity of Water	o.5% Solution*	1% Solution	2% Solution
1 Quart	0.15 ounces*	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces*	1.3 ounces	2.7 ounces
10 Gallons	6.7 ounces*	13.4 ounces	26.7 ounces
50 Gallons	33.4 ounces*	66.8 ounces	133.5 ounces

^{*}The 0.5% solution currently is not approved for use in California.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTRUCTIONS – POULTRY AND FARM PREMISES

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and ther facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- Thoroughly clean all surfaces with soap or detergent and rinse with water.
- Saturate surfaces with the disinfecting solution for a period of 10 minutes.

- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

This powder formulation is easily diluted for use in manual or machine operations.

POULTRY AND RATITE PRODUCTION CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium,

Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. *Not approved in California for use against the following organisms:* Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts – *Not Approved for this use in California*), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S Disinfectant and Virucide* at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

DISINFECTANT AND VIRUCIDE*



FOGGING (WET MISTING) INSTRUCTIONS – POULTRY AND RATITE PRODUCTION

Follow General Instructions to remove poultry and/or animals from room to be treated.

urfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated. Prepare a Virkon®S Disinfectant and Virucide at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled and treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must beentered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon* S Disinfectant and Virucide* at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon* S Disinfectant and Virucide*. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon*S Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

controls: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon® S Disinfectant and Virucide* for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon* S Disinfectant and Virucide with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) - SWINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EQUINE PRODUCTION BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS: Viruses of Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Staphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%) Not approved in

DISINFECTANT AND VIRUCIDE*

California for use against the following organisms:
Fungi of Fusarium moniliforme. Viruses of African Horse
Sickness, Equine Viral Arteritis (Pink Eye), Coital
Exantherma, Myeloencephalopathy, Rhinopneumonitis,
Emine Contagious Abortion, Equine Papillomatosis,
L. ne Infectious anemia (Swamp Fever), Adenovirus
Pneumonia, Equine Influenza (The Cough) and Rhinitis;
Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll
Evil), Taylorella equigenitalis, Bordetella bronchiseptica,
Streptococcus equi (Strangles) and Pseudomonas mallei
(Glanders); Fungi of Dermatophytosis (Ringworm) and
Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all nonporous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack,
Equipment, and Feed Rooms: Follow general instructions
to remove animals from area to be treated. Thoroughly
clean and dry [dry clean] surfaces, then wash the area
manually or with pressure washer with a 1% Virkon®S
. ifectant and Virucide* solution, saturating surfaces
for a period of 10 minutes. Allow surfaces to air dry. Rinse
waterers and feeders with potable water before reuse.

To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S Disinfectant and Virucide*, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). *Not approved in California for use against the following organisms:* Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon*S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon*S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) - BOVINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until

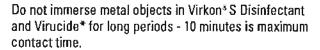
the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon® S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon® S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

DISINFECTANT AND VIRUCIDE*



GREENHOUSES AND HORTICULTURE

'nn®S Disinfectant and Virucide* is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

For surfaces and equipment

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon* S Disinfectant nd Virucide* per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.

- Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

For clean non-porous surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon® S Disinfectant and Virucide* per gallon of clean water.

Use a dilution of 1:50 or 2.6 oz. of Virkon® S Disinfectant and Virucide* per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.

For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon[®]S Disinfectant and Virucide*. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon[®]S Disinfectant and Virucide* for every gallon of cooler water.

Virkon*S Disinfectant and Virucide* may also be used to disinfect irrigation tanks and lines. Not approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

FOGGING (WET MISTING) INSTRUCTIONS – GREENHOUSE/HORTICULTURE

Use a 0.5% -1.0% solution of Virkon* S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. **Not approved in California for fogging at dilutions less than 1%.** Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)

Not approved for this use in California Disinfection helps to control and prevent the cross-contamination of DIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected

DISINFECTANT AND VIRUCIDE*



of harboring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including traction ploughing shares, cars and trucks, farm engines, howesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins, and containers).

Spray Virkon® S Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

Not approved for this use in California. The instructions above call for use of a 1% solution for general disinfection. However, Virkon® S Disinfectant and Virucide* is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rates specified below. If the threat is known and limited to one of the organisms below, Virkon® S Disinfectant and Virucide* may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon® S Disinfectant and Virucide* may also

be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon*S Disinfectant and Virucide* does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon*S Disinfectant and Virucide* may only be applied using hand-held sprayers, sponges or other absorbent materials.

Do not allow Virkon®S Disinfectant and Virucide* to pool on surfaces that may be within reach of animals. Do not allow Virkon®S Disinfectant and Virucide* to come into direct contact with people. Allow Virkon®S Disinfectant and Virucide* to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

Manufactured for:

E. I. du Pont de Nemours and Company DuPont Animal Health Solutions PO Box 80402 Wilmington, DE 19880-0402 USA www.ahs.dupont.com Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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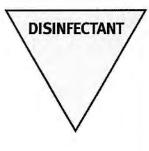
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Rev. 05/04/11





Virkon[®]S DISINFECTANT AND VIRUCIDE*



For use in cleaning and disinfecting industrial, animal and agricultural facilities

Powder Form

Effective against Viruses*, Bacteria, and Fungi

ACTIVE INGREDIENTS:

Potaccium porovumopoculfoto

rotassium peroxymonosumate	
Sodium Chloride	1.50%
OTHER INGREDIENTS	<u>77.09%</u>
TOTAL INGREDIENTS:	100.00%

Equivalent to 9.75% Available Chlorine

NET CONTENTS: 10LB (4.53KG)

FIRST AID

21 410/

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN DANGER / PELIGRO

See inside booklet for Additional Precautions



EPA REG NO 71654-6 EPA EST. NO. 42291-GA-01

DISINFECTANT AND VIRUCIDE*

PRECAUTIONARY STATEMENTS

HAZARDS TD HUMANS AND DDMESTIC ANIMALS

DANGER. Powder is Corrosive. Causes irreversible eye damage or skin hurns. Harmful if swallowed or absorbed through the skin. Do not get a yes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use solution.

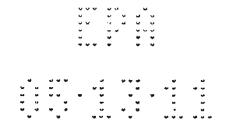
ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment authority. For guidance, contact your State Water Board or Regional solice of the EPA.

BRDAD SPECTRUM DISINFECTANT:

Virkon®S Disinfectant and Virucide* is effective against numerous microorganisms affecting animals: viruses*, gram positive and gram

negative bacteria, fungi (molds and yeasts – *Not Approved for this use in California*), and mycoplasma. Efficacy of the 1% solution against bacteria and viruses* was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hard water," "no soil load," and "use 2% solution."





STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Diffice for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tankor store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DISINFECTANT AND VIRUCIDE*



Equine Infectious Anemia



EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOONOTIC TOTHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Pasteurella multocida Pseudomonas aeruginosa almonella enterica Salmonella typhimurium Shigella sonnei Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against the following bacteria:

Bordetella avium Bordetella bronchiseotica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye) Mycoplasma hyopneumonia Mycoplasma mycoides Pseudomonas mallei (Glanders) Pseudomonas vulgaris Streptococcus equi (Strangles) Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus
Avian Laryngotracheitis Virus
Bovine Adenovirus Type 4
Canine Adenovirus
(Canine Hepatitis)
Canine Parvovirus
Equine Herpes Virus (Type 1)
Equine Herpes Virus (Type 3)
Equine Influenza Virus (Type A)

Feline Calicivirus
Feline Panleukopenia Virus
Feline Rhinotracheitis Virus
Newcastle Disease Virus
Simian virus (SV40 Virus)

Not approved in California for use against the following viruses: Adenovirus Pneumonia African Horse Sickness Virus

African Swine Fever Virus
(tested with 1% soil load
and 342 ppm hard water)
Bovine Polyoma Virus
Bovine Pseudocowpox Virus
Bovine Viral Diarrhea Virus
(no hard water)
Calf Rotavirus (no hard water)
Canine Coronavirus
Canine Parainfluenza Virus
Chicken Anemia Virus
Coital Exantherma Virus

Distemper Virus
Duck Adenovirus
(no hard water)
Duck Enteritis Virus
Egg Drop Syndrome
Adenovirus

Virus (Swamp Fever) Equine Arteritis Virus (no hard water) Equine Contagious Abortion Virus Equine Papillomatosis Virus Equine Influenza Virus (The Cough) Feline Herpes Virus Feline Infectious Peritonitis Virus Feline Parvovirus Foot and Mouth Disease Virus Hog Cholera Virus Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus

Infective Bovine

Rhinotracheitis Virus

Leptospira Canicola Virus

Ino hard water)

Maedi- Visna Virus

Mouse Parvovirus

PCV2 Virus (PMWS)

Porcine Parvovirus

Marek's Disease Virus

Porcine Reproductive and
Respiratory Syndrome
Virus (PRRS)
Pseudorabies Virus (Aujesky's
Disease) (no hard water)
Rotaviral Diarrhea Virus
Swine Influenza Virus
Swine Vesicular Disease Virus
Transmissible Gastroenteritis
Virus (TGE) (no hard water)
Turkey Herpes Virus
(no hard water)
Turkey Rhinotracheitis Virus
Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi:

Aspergillus fumigatus

Fusarium moniliforme

Microsporum canis

Mycoplasma hyopneumonia

Trichophyton spp. (Ringworm)

Trichophyton spp. (Mud Fever)

DISINFECTANT AND VIRUCIDE*



Virkon®S DISINFECTANT AND VIRUCIDE* DILUTION CHART

Fill container with desired amount of water and add Virkon®S Disinfectant and Virucide* to achieve solution concentration.

`olutions are stable for 7 days. Do not soak metal objects in Virkon*S Disinfectant and Virucide* for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. Measuring cup provided.

Quantity of Water	o.5% Solution*	1% Solution	2% Solution
1 Quart	0.15 ounces*	0.3 ounces	0.7 ounces
1 Gallon	0.65 ounces*	1.3 ounces	2.7 ounces
10 Galfons	6.7 ounces*	13.4 ounces	26.7 ounces
50 Gallons	33.4 ounces*	66.8 ounces	133.5 ounces

^{*}The 0.5% solution currently is not approved for use in California.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTRUCTIONS – POULTRY AND FARM PREMISES

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and ther facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- Thoroughly clean all surfaces with soap or detergent and rinse with water.
- Saturate surfaces with the disinfecting solution for a period of 10 minutes.

- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

This powder formulation is easily diluted for use in manual or machine operations.

POULTRY AND RATITE PRODUCTION CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium,

Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. *Not approved in California for use against the following organisms:* Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts — *Not Approved for this use in California*), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S Disinfectant and Virucide* at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

DISINFECTANT AND VIRUCIDE*



FOGGING (WET MISTING) INSTRUCTIONS – POULTRY AND RATITE PRODUCTION

Follow General Instructions to remove poultry and/or animals from room to be treated.

purfaces must be cleaned and disinfected in accordance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated. Prepare a Virkon*S Disinfectant and Virucide at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled

'xhausted. Do not house animals or use equipment until treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must beentered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

BRDILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon® S Disinfectant and Virucide* at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon® S Disinfectant and Virucide*. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon® S Disinfectant and Virucide* for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S Disinfectant and Virucide with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) - SWINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. **Not approved in California for fogging at dilutions less than 1%.** Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EQUINE PRODUCTION BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS: Viruses of Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Staphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%) Not approved in

DISINFECTANT AND VIRUCIDE*

California for use against the following organisms:
Fungi of Fusarium moniliforme. Viruses of African Horse
Sickness, Equine Viral Arteritis (Pink Eye), Coital
Exantherma, Myeloencephalopathy, Rhinopneumonitis,
Fine Contagious Abortion, Equine Papillomatosis,
Line Infectious anemia (Swamp Fever), Adenovirus
Pneumonia, Equine Influenza (The Cough) and Rhinitis;
Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll
Evil), Taylorella equigenitalis, Bordetella bronchiseptica,
Streptococcus equi (Strangles) and Pseudomonas mallei
(Glanders); Fungi of Dermatophytosis (Ringworm) and
Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all nonporous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack,
Equipment, and Feed Rooms: Follow general instructions
to remove animals from area to be treated. Thoroughly
clean and dry [dry clean] surfaces, then wash the area
manually or with pressure washer with a 1% Virkon* S
. Infectant and Virucide* solution, saturating surfaces
for a period of 10 minutes. Allow surfaces to air dry. Rinse
waterers and feeders with potable water before reuse.

To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S Disinfectant and Virucide*, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon* S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon*S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) - BOVINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon* S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until

the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes(2%). *Not approved in California for use against the following organisms:* Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon® S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon® S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

DISINFECTANT AND VIRUCIDE*

Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods - 10 minutes is maximum contact time.

GREENHOUSES AND HORTICULTURE

on®S Disinfectant and Virucide* is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

For surfaces and equipment

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2 Use a dilution of 1:100 or 1.3 oz. Virkon® S Disinfectant .nd Virucide* per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3. Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.

- 4. Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

For clean non-porous surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon*S Disinfectant and Virucide* per gallon of clean water.

Use a dilution of 1:50 or 2.6 oz. of Virkon®S Disinfectant and Virucide* per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.

For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon® S Disinfectant and Virucide*. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon® S Disinfectant and Virucide* for every gallon of cooler water.

Virkon*S Disinfectant and Virucide* may also be used to disinfect irrigation tanks and lines. Not approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

FOGGING (WET MISTING) INSTRUCTIONS – GREENHOUSE/HORTICULTURE

Use a 0.5% -1.0% solution of Virkon® S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)

Not approved for this use in California Disinfection helps to control and prevent the cross-contamination of DIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected

DISINFECTANT AND VIRUCIDE*



of harboring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including traction), ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins, and containers).

Spray Virkon[®] S Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon*S Disinfectant and Virucide* for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

Not approved for this use in California. The instructions above call for use of a 1% solution for general disinfection. However, Virkon® S Disinfectant and Virucide® is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rates specified below. If the threat is known and limited to one of the organisms below, Virkon® S Disinfectant and Virucide® may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon® S Disinfectant and Virucide* may also

be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S Disinfectant and Virucide* does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S Disinfectant and Virucide* may only be applied using hand-held sprayers, sponges or other absorbent materials.

Do not allow Virkon®S Disinfectant and Virucide* to pool on surfaces that may be within reach of animals. Do not allow Virkon®S Disinfectant and Virucide* to come into direct contact with people. Allow Virkon®S Disinfectant and Virucide* to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

Manufactured for:

E. I. du Pont de Nemours and Company DuPont Animal Health Solutions PO Box 80402 Wilmington, DE 19880-0402 USA www.ahs.dupont.com Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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RSL-22

Rev. 05/04/11







Virkon®S DISINFECTANT AND VIRUCIDE*

In accordance with PR Notice 82-2.
Based on Draft Labeling Dated 7/654-6



For use in cleaning and disinfecting industrial, animal and agricultural facilities

Powder Form

Effective against Viruses*, Bacteria, and Fungi

ACTIVE INGREDIENTS:

Potassium peroxymonosuitate	ZI.TI/U
Sodium Chloride	1.50%
OTHER INGREDIENTS	77.09%
TOTAL INGREDIENTS:	100.00%

Equivalent to 9.75% Available Chlorine

NET CONTENTS: 10LB (4.53KG)

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

DANGER / PELIGRO

See inside booklet for Additional Precautions



EPA REG NO 71654-6 EPA EST. NO. 42291-GA-01



DISINFECTANT AND VIRUCIDE*

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Powder is Corrosive. Causes irreversible eye damage or skin ins. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Corrosive statement refers to powder only not in use solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S Disinfectant and Virucide* is effective against numerous microorganisms affecting animals: viruses*, gram positive and gram

negative bacteria, fungi (molds and yeasts – *Not Approved for this use in California*), and mycoplasma. Efficacy of the 1% solution against bacteria and viruses* was determined in the presence of 400 ppm [200 ppm in California] AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hard water," "no soil load," and "use 2% solution."

STORAGE AND DISPOSAL

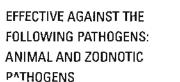
Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tankor store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DISINFECTANT AND VIRUCIDE*



BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Pasteurella multocida Pseudomonas aeruginosa ^almonella enterica Jalmonella typhimurium Shigella sonnei Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against the following bacteria:

Bordetella avium Bordetella bronchiseptica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye) Mycoplasma hyopneumonia Mycoplasma mycoides Pseudomonas mallei (Glanders) Pseudomonas vulgaris Streptococcus equi (Strangles) Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus
Avian Laryngotracheitis Virus
Bovine Adenovirus Type 4
Canine Adenovirus
(Canine Hepatitis)
Canine Parvovirus
Equine Herpes Virus (Type 1)
Equine Herpes Virus (Type 3)
Equine Influenza Virus (Type A)

Feline Calicivirus
Feline Panleukopenia Virus
Feline Rhinotracheitis Virus
Newcastle Disease Virus
Simian virus (SV40 Virus)

Not approved in California for use against the following viruses:

Adenovirus Pneumonia African Horse Sickness Virus African Swine Fever Virus (tested with 1% soil load and 342 ppm hard water) Bovine Polyoma Virus Bovine Pseudocowpox Virus Bovine Viral Diarrhea Virus (no hard water) Calf Rotavirus (no hard water) Canine Coronavirus Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus Distemper Virus Duck Adenovirus (no hard water) Duck Enteritis Virus Egg Drop Syndrome

Adenovirus

Equine Infectious Anemia Virus (Swamp Fever) Equine Arteritis Virus (no hard water) Equine Contagious Abortion Virus Equine Papillomatosis Virus Equine Influenza Virus (The Couah) Feline Herpes Virus Feline Infectious Peritonitis Virus Feline Parvovirus Foot and Mouth Disease Virus Hog Cholera Virus Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus (no hard water) Leptospira Canicola Virus Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus

PCV2 Virus (PMWS)

Porcine Parvovirus

Porcine Reproductive and
Respiratory Syndrome
Virus (PRRS)
Pseudorabies Virus (Aujesky's
Disease) (no hard water)
Rotaviral Diarrhea Virus
Swine Influenza Virus
Swine Vesicular Disease Virus
Transmissible Gastroenteritis
Virus (TGE) (no hard water)

FUNGI

Trichophyton mentagrophytes (2%)

Turkey Herpes Virus

(no hard water)

Turkey Rhinotracheitis Virus

Vesicular Stomatitis Virus

Not approved in California for use against the following fungi:

Aspergillus fumigatus

Fusarium moniliforme

Microsporum canis

Mycoplasma hyopneumonia

Trichophyton spp. (Ringworm)

Trichophyton spp. (Mud Fever)

DISINFECTANT AND VIRUCIDE*



Virkon®S DISINFECTANT AND VIRUCIDE* DILUTION CHART

Fill container with desired amount of water and add Virkon[®] S Disinfectant and Virucide* to achieve solution concentration.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S Disinfectant and Virucide* for long periods - 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 sq. ft. Measuring cup provided.

Quantity of Water	0.5% Solution*	1% Solution	2% Solution
1 Quart	0.15 ounces*	0.3 ounces	0.7 ounces
1 Gallon	0.65 оилсеѕ*	1.3 ounces	2.7 ounces
10 Gallons	6.7 ounces*	13.4 ounces	26.7 оппсез
50 Gallons	33.4 ounces*	66.8 ounces	133.5 оипсеѕ

^{*}The 0.5% solution currently is not approved for use in California.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTRUCTIONS – POULTRY AND FARM PREMISES

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stalls, chutes and ther facilities and fixtures occupied or traversed by poultry or other animals.
- Empty all troughs, racks, and other feeding and watering appliances.
- Thoroughly clean all surfaces with soap or detergent and rinse with water.
- Saturate surfaces with the disinfecting solution for a period of 10 minutes.

- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

This powder formulation is easily diluted for use in manual or machine operations.

POULTRY AND RATITE PRODUCTION CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium,

Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. *Not approved in California for use against the following organisms:* Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts – *Not Approved for this use in California*), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon*S Disinfectant and Virucide* at 1% solution can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon*S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

DISINFECTANT AND VIRUCIDE*



FOGGING (WET MISTING) INSTRUCTIONS – POULTRY AND RATITE PRODUCTION

Follow General Instructions to remove poultry and/or animals from room to be treated.

surfaces must be cleaned and disinfected in accoruance with label directions prior to fogging. Fogging is an adjunct or supplement to normal cleaning and disinfection procedures and practices.

Close room off, so fog is confined to room to be treated. Prepare a Virkon* S Disinfectant and Virucide at dilution of 1.0% to 2.0% in water (1:100 to 1:50).

Apply at an application rate of 1 gallon per 430 ft2 of floor space. Use a mechanical or plumbed in misting system designed for water-based applications with a droplet size of greater than 50 microns, or a pressure washer/knapsack or tank sprayer to deliver fine mist. Insert the nozzle of the fogging device through a suitable opening in the room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled exhausted. Do not house animals or use equipment at treatment has dried. Rinse waterers and feeders with potable water before reuse. Rinse foggers and sprayers with potable water following use.

Note: Individuals must avoid entering the building or room during fogging. If the building or room must beentered, then individuals entering must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves, and pants.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon* S Disinfectant and Virucide* at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon* S Disinfectant and Virucide*. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon* S Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

controls: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon* S Disinfectant and Virucide* for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S Disinfectant and Virucide with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) - SWINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EQUINE PRODUCTION BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS: Viruses of Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Staphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%) Not approved in

DISINFECTANT AND VIRUCIDE*

California for use against the following organisms:
Fungi of Fusarium moniliforme. Viruses of African Horse
Sickness, Equine Viral Arteritis (Pink Eye), Coital
Exantherma, Myeloencephalopathy, Rhinopneumonitis,
Fruine Contagious Abortion, Equine Papillomatosis,
...ne Infectious anemia (Swamp Fever), Adenovirus
Pneumonia, Equine Influenza (The Cough) and Rhinitis;
Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll
Evil), Taylorella equigenitalis, Bordetella bronchiseptica,
Streptococcus equi (Strangles) and Pseudomonas mallei
(Glanders); Fungi of Dermatophytosis (Ringworm) and
Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all nonporous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack,
Equipment, and Feed Rooms: Follow general instructions
to remove animals from area to be treated. Thoroughly
clean and dry [dry clean] surfaces, then wash the area
manually or with pressure washer with a 1% Virkon®S
. ifectant and Virucide* solution, saturating surfaces
for a period of 10 minutes. Allow surfaces to air dry. Rinse
waterers and feeders with potable water before reuse.

To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S Disinfectant and Virucide*, shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis and Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon® S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

FOGGING (WET MISTING) - BOVINE

Follow General Instructions to remove poultry and/or animals from room to be treated.

Use a 0.5% -1.0% solution of Virkon® S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for fogging at dilutions less than 1%. Fog (wet mist) until

the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions)

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes(2%). *Not approved in California for use against the following organisms:* Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon*S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon*S Disinfectant and Virucide* with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

DISINFECTANT AND VIRUCIDE*

Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods - 10 minutes is maximum contact time.

GREENHOUSES AND HORTICULTURE

on*S Disinfectant and Virucide* is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays, and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds, or soil. Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

For surfaces and equipment

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2 Use a dilution of 1:100 or 1.3 oz. Virkon* S Disinfectant and Virucide* per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces.

- Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

For clean non-porous surfaces

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon* S Disinfectant and Virucide* per gallon of clean water.

Use a difution of 1:50 or 2.6 oz. of Virkon* S Disinfectant and Virucide* per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits.

For evaporative coolers: Not approved use in California: Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S Disinfectant and Virucide*. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon®S Disinfectant and Virucide* for every gallon of cooler water.

Virkon*S Disinfectant and Virucide* may also be used to disinfect irrigation tanks and lines. Not approved use in California: Run a 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

FOGGING (WET MISTING) INSTRUCTIONS – GREENHOUSE/HORTICULTURE

Use a 0.5% -1.0% solution of Virkon* S Disinfectant and Virucide* for fogging (wet misting) operations as a supplemental measure after regular cleaning and disinfecting procedures. Not approved in California for togging at dilutions less than 1%. Fog (wet mist) until the area is moist using automatic foggers according to manufacturer's use directions. Rinse foggers and sprayers with potable water following use. Refer to Fogging (Wet Misting instructions).

EMERGENCY DISEASE CONTROL (ANIMAL HEALTH)

Not approved for this use in California Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease Virus, and Mycoplasma mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect agricultural facilities and equipment, military facilities and equipment; airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected

DISINFECTANT AND VIRUCIDE*



of harboring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including trac-

', ploughing shares, cars and trucks, farm engines, trarvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins, and containers).

Spray Virkon®S Disinfectant and Virucide* at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SPECIFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

Not approved for this use in California. The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S Disinfectant and Virucide* is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rates specified below. If the threat is known and limited to one of the organisms below, Virkon®S Disinfectant and Virucide* may be used at the following dilution rates:

Organism	Dilution Rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USES IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon® S Disinfectant and Virucide* to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways. Virkon® S Disinfectant and Virucide* may also

be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S Disinfectant and Virucide* does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S Disinfectant and Virucide* may only be applied using hand-held sprayers, sponges or other absorbent materials.

Do not allow Virkon®S Disinfectant and Virucide* to pool on surfaces that may be within reach of animals. Do not allow Virkon®S Disinfectant and Virucide* to come into direct contact with people. Allow Virkon®S Disinfectant and Virucide* to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

Manufactured for:

E. I. du Pont de Nemours and Company DuPont Animat Health Solutions PO Box 80402 Wilmington, DE 19880-0402 USA www.ahs.dupont.com Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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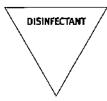
RSL-22

Rev. 05/04/11



Virkon® S

DISINFECTANT AND VIRUCIDE



Tablet and Powder Form

Effective against Viruses Bacteria, Fungi

ACTIVE INGREDIENTS:

 Potassium peroxymonosulfate
 21.41%

 Sodium chloride
 1.50%

 OTHER INGREDIENTS
 77.09%

 TOTAL INGREDIENTS:
 100.00%

Equivalent to 9.75% Available Chlorine

In accordance with PR Notice 82-2.
Mised on Draft Labeling Dated

5/4/2011

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye: Cull a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting who will be swallow. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

See Inside Booklet For Additional Precautionary Statements

PRECAUTIONARY STATEM TS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts – Not Approved for this use in California), and mycoplasma.

Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm (200 ppm in California) ADAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hardwater," "no soil load," and "use 2% solution".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIOE STORAGE: For pails, jugs, bottles:
Store in a cool dry place in tightly closed

container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.

For sachet, pouch, packet, bag: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals. For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Orain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL ANO ZDONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Mycoplasma hyopneumoniae Pasteurella multocida

Pseudomonas aeruginosa Salmonella enterica Salmonella typhimurium

Shigella sonnei

Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against

the following bacteria: Bordetella avium

Bordetella bronchiseptica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye) Mycoplasma mycoides

Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Streptococcus equi (Strangles)

Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus

Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Equine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against

the following viruses:
Adenovirus Pneumonia
African Horse Sickness Virus
African Swine Fever Virus
(tested with 1% soil load and 342 ppm hard water)

Bovine Polyoma Virus

Bovine Pseudocowpox Virus

Bovine Viral Diarr Virus (no hard water)

Calf Rotavirus (no hard water)

Canine Coronavirus Canine Parainfluenza Virus

Chicken Anemia Virus Coital Exantherma Virus

Distemper Virus

Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp Fever)

Equine Arteritis Virus (no hard water)

Equine Contagious Abortion Virus Equine Papillomatosis Virus

Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus

(no hard water)

Leptospira Canicola Virus

Leptospira Canicola viri Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus PCV2 Virus (PMWS)

Porcine Reproductive and

Porcine Parvovirus

Respiratory Syndrome Virus (PRRS) Pseudorabies Virus (Aujesky's Disease)

(no hard water) Rotaviral Diarrhea Virus Swine Influenza Virus

Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi: Aspergillus fumigatus Fusarium moniliforme Microsporum canis Trichophyton spp. (Ringworm, Trichophyton spp. (Mud Fever)

PLANT PATHOGENS

Not approved in California for use against plant pathogens:

Alternaria solani
Botrytis cinera
Colletotrichum coccodes
Didymella bryoniae
Fusarium oxysporum
Fusarium solani
Penicillium oxalicum
Phomopsis sclerotioides
Pyrenochaeta lycoopersici
Pythium aphanidermatium
Rhizoctonia solani
Sclerotinia sclerotiorum
Thielaviopsis basicola
Verticillium dahliae
Xanthomonas axonopodis

VIRKON®S DILUTION CHART

Fill container with desired amount of water and add Virkon®S powder or tablet(s) to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S for long periods – 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 square feet. *The 0.5% solution is currently not approved for use in California.

	o.5% Solution*	1% Solution	2% Solution
1 Gallon		1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

		1% Solution	2% Solution
1 Pint		1 Tablet	2 Tablets
1 Gallon	4 Tablets	8 Tablets	16 Tablets

DIRECTIONS FC JSE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTRUCTIONS – POULTRY AND FARM PREMISES:

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stall, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the disinfecting solution for a period of 10 minutes.
- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

POULTRY PRODUCTION AND RATITE PRODUCTION

CONTRDLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts, not approved for use in California), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S at 1% Ition can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon®S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus
Pleuropneumoniae and Clostridium perfringens;
Fungi of Trichophyton mentragrophytes (2%).
Not approved in California for use against the
following organisms: Viruses of Hog Cholera,
Swine influenza, Porcine Parvovirus, Porcine
Reproductive and Respiratory Syndrome Virus
(PRRS); Pseudorabies, Rotoviral Diarrhea, African
Swine Fever, Fungi of Fusarium moniliforme, Foot
and Mouth Disease and Bacteria of Treponema
hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

EQUINE PRODUCT N BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Straphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme. Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica. Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon®S Disinfectant and Virucide* solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S, Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis; Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon®S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods 10 minutes is maximum contact time.

GREENHOUSES A HORTICULTURE

Virkon®S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds or soil.

Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

FOR SURFACES AND EQUIPMENT

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3. Apply solution with mop, sponge, or power sprayer to thoroughly wet all surfaces.
- Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

FOR CLEAN NON-POROUS SURFACES

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz, of Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon S per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits.

For evaporative coolers: Not approved for use in California. Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon S for every gallon of cooler water. Virkon®S may also be used to disinfect irrigation tanks and lines. Not an

approved use in California. R 11% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

AQUACULTURE

(Not approved for this use in California): Virkon®S intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon®S may also be used in foot dips. Virkon®S must not be applied directly to water.

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon®S solution followed by a water rinse.

EMERGENCY DISEASE CONTROL

(ANIMAL HEALTH) (Not approved for this use in California): Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease

Virus, and Mycop' na mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon®S to clean and disinfect agricultural facilities and equipment, military facilities and equipment, airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harbouring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers). Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SP' 'FIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

(Not approved for this use in California):
The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rate specified below. If the threat is known and limited to the organism below, Virkon®S may be used at the following dilution rate:

Organism	Dilution rate	Oz./Gal.
PCV2 Virus (PMWS)	1:200	0.7

USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon®S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways.

Virkon®S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/ boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon®S to pool on surfaces that may be within reach of animals. Do not allow Virkon®S to come into direct contact with people. Allow Virkon®S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

Manufactured for:
E. I. du Pont de Nemours and Company
DuPont Animal Health Solutions
PO Box 80402
Wilmington, DE 19880-0402 USA

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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Virkon® S

DISINFECTANT AND VIRUCIDE



Tablet and Powder Form

Effective against Viruses Bacteria, Fungi

ACTIVE INGREDIENTS:

 Potassium peroxymonosulfate
 21.41%

 Sodium chloride
 1.50%

 OTHER INGREDIENTS
 77.09%

 TOTAL INGREDIENTS:
 100.00%

 Equivalent to 9.75% Available Chlorine

In accordance with PR Notice 82-2.
Rased on Draft Labeling Dated

FIRST AID

IF IN EYES: Hold eye open and tinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

See Inside Booklet For Additional Precautionary Statements

PRECAUTIONARY STATEM! 'S

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts – Not Approved for this use in California), and mycoplasma.

Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm (200 ppm in California) AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hardwater," "no soil load," and "use 2% solution".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIOE STORAGE: For pails, jugs, bottles:

Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this', product with other chemicals.

For sachet, pouch, packet, bag: Store in e-cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals.: For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children. Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZDONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Mycoplasma hyopneumoniae

Pasteurella multocida Pseudomonas aeruginosa Salmonella enterica Salmonella typhimurium

Shigella sonnei

Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against

the following bacteria: Bordetella avium

Bordetella bronchiseptica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye) Mycoplasma mycoides

Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Streptococcus equi (Strangles)

Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus

Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Equine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against

the following viruses:
Adenovirus Pneumonia
African Horse Sickness Virus
African Swine Fever Virus

(tested with 1% soil load and 342 ppm hard water)

Bovine Polyoma Virus

Bovine Pseudocowpox Virus

Bovine Viral Diarr! Virus (no hard water)

Calf Rotavirus (no hard water)

Canine Coronavirus

Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus

Distemper Virus

Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp Fever)

Equine Arteritis Virus (no hard water)

Equine Contagious Abortion Virus Equine Papillomatosis Virus

Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus

Infective Bovine Rhinotracheitis Virus

(no hard water)

Leptospira Canicola Virus

Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus PCV2 Virus (PMWS) Porcine Parvovirus

Porcine Reproductive and

Respiratory Syndrome Virus (PRRS) Pseudorabies Virus (Aujesky's Disease)

(no hard water) Rotaviral Diarrhea Virus Swine Influenza Virus

Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi:

Aspergillus fumigatus

Fusarium moniliforme Microsporum canis Trichophyton spp. (Ringworm) Trichophyton spp. (Mud Fever)

PLANT PATHOGENS

Not approved in California for use against plant pathogens:

pathogens:
Alternaria solani
Botrytis cinera
Colletotrichum coccodes
Didymella bryoniae
Fusarium oxysporum
Fusarium solani
Penicillium oxalicum
Phomopsis sclerotioides
Pyrenochaeta lycoopersi

Pyrenochaeta lycoopersici Pythium aphanidermatium Rhizoctonia solani

Sclerotinia sclerotiorum Thielaviopsis basicola

Verticillium dahliae

Xanthomonas axonopodis

VIRKON®S DILUTION CHART

Fill container with desired amount of water and add Virkon®S powder or tablet(s) to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S for long periods – 10 minutes is maximum necessary contact time. Dne gallon of solution is sufficient to treat 135 square feet. *The 0.5% solution is currently not approved for use in California.

Quantity of Water	o.5% Solution*	1% Solution	2% Solution
1 Gallon		1 Sachet	2 Sachets
2 Gallons	1 Sachet	2 Sachets	4 Sachets

Quantity of Water	o.5% Solution*	1% Solution	2% Solution
1 Pint		1 Tablet	2 Tablets
1 Gallon	4 Tablets	8 Tablets	16 Tablets

DIRECTIONS FO: \SE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTRUCTIONS – POULTRY AND FARM PREMISES:

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- 2. Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stall, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the disinfecting solution for a period of 10 minutes.
- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts, not approved for use in California), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S at 1% ration can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon®S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus Pleuropneumoniae and Clostridium perfringens; Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Hog Cholera, Swine influenza, Porcine Parvovirus, Porcine Reproductive and Respiratory Syndrome Virus (PRRS); Pseudorabies, Rotoviral Diarrhea, African Swine Fever, Fungi of Fusarium moniliforme, Foot and Mouth Disease and Bacteria of Treponema hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

EQUINE PRODUCT N BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT

CONTROLS Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of; Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Straphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme. Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis (Ringworm) and Dermatophylosis (Mud Fever).

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon®S Disinfectant and Virucide* solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S, Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms: Bacteria of Moraxella bovis; Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon®S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces, equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities. laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods 10 minutes is maximum contact time.

GREENHOUSES A: HORTICULTURE

Virkon®S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds or soil.

Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

FOR SURFACES AND EQUIPMENT

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- 3. Apply solution with mop, sponge, or power sprayer to thoroughly wet all surfaces.
- 4. Heavy growth of algae or fungi may have to be scrubbed off following application.
- Reapply as often as needed for control.

FOR CLEAN NON-POROUS SURFACES

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon S per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits.

For evaporative coolers: Not approved for use in California. Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon S for every gallon of cooler water. Virkon®S may also be used to disinfect irrigation tanks and lines. Not an

approved use in California. Rt 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

AQUACULTURE

(Not approved for this use in California): Virkon®S intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon®S may also be used in foot dips. Virkon®S must not be applied directly to water.

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon®S solution followed by a water rinse.

EMERGENCY DISEASE CONTROL

(ANIMAL HEALTH) (Not approved for this use in California): Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease

Virus, and Mycopl na mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon®S to clean and disinfect agricultural facilities and equipment, military facilities and equipment, airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harbouring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers). Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO S! IFIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

(Not approved for this use in California):
The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rate specified below. If the threat is known and limited to the organism below, Virkon®S may be used at the following dilution rate:

Organism	Dilution rate	Oz./Gal.	
PCV2 Virus (PMWS)	1:200	0.7	

USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon®S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways.

Virkon®S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/ boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon®S to pool on surfaces that may be within reach of animals. Do not allow Virkon®S to come into direct contact with people. Allow Virkon®S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

Manufactured for:
E. I. du Pont de Nemours and Company
DuPont Animal Health Solutions
PO Box 80402
Wilmington, DE 19880-0402 USA

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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Virkon® S

DISINFECTANT AND VIRUCIDE



Tablet and Powder Form

Effective against Viruses Bacteria, Fungi

ACTIVE INGREDIENTS:

 Potassium peroxymonosulfate
 21.41%

 Sodium chloride
 1.50%

 OTHER INGREDIENTS
 77.09%

 TOTAL INGREDIENTS:
 100.00%

 Equivalent to 9.75% Available Chlorine

NOT REVIEWED

In accordance with PR Notice 82-2.

Based on Draft Labeling Dated 5/4/2011

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for . . treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Cail poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

For 24-hour emergency information on this product, call 1-800-441-3637 (US & Canada) or 1-302-774-1139 (all other areas).

NOTETO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

See Inside Booklet For Additional Precautionary Statements

PRECAUTIONARY STATEME S

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Powder is corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles (or face shield). Wear protective clothing (long sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as water proof gloves). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Corrosive statement refers to powder only not in use-diluted solution.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

BROAD SPECTRUM DISINFECTANT:

Virkon®S is effective against numerous microorganisms affecting animals: viruses, gram positive and gram negative bacteria, fungi (molds and yeasts – Not Approved for this use in California), and mycoplasma.

Efficacy of the 1% solution against bacteria and viruses was determined in the presence of 400 ppm (200 ppm in California) AOAC hard water and 5% organic material in most cases. The exceptions are noted with qualifiers, e.g., "no hardwater," "no soil load," and "use 2% solution".

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: For pails, jugs, bottles: Store in a cool dry place in tightly closed container. Keep out of reach of children. Always replace lid after use. Retain dessicant canister with product during storage. Do not mix this

product with other chemicals.

For sachet, pouch, packet, bag: Store in a cool dry place. Keep out of reach of children. Retain dessicant canister with product during storage. Do not mix this product with other chemicals. For spray bottle with in-use solution: Store in a cool dry place. Keep out of reach of children.: Do not mix this product with other chemicals.

PESTICIDE DISPOSAL: Pesticide wastes, may, be hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Orain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EFFECTIVE AGAINST THE FOLLOWING PATHOGENS: ANIMAL AND ZOONOTIC PATHOGENS

BACTERIA

Actinobacillus pleuropneumoniae Bacillus cereus Brucella abortus Campylobacter jejuni Clostridium perfringens Dermatophilus congolensis Escherichia coli Klebsiella pneumoniae Mycoplasma gallisepticum Mycoplasma hyopneumoniae

Pasteurella multocida Pseudomonas aeruginosa Salmonella enterica Salmonella typhimurium

Shigella sonnei

Staphylococcus aureus Staphylococcus epidermidis Streptococcus pyogenes Streptococcus suis

Not approved in California for use against

the following bacteria: Bordetella avium

Bordetella bronchiseptica Fistulous withers (Poll Evil) Haemophilus somnus Helicobacter pylori Listeria monocytogenes Moraxella bovis (Pink Eye)

Pseudomonas mallei (Glanders)

Pseudomonas vulgaris

Mycoplasma mycoides

Streptococcus equi (Strangles)

Taylorella equigenitalis Treponema hyodysenteriae

VIRUSES

Avian Influenza Virus

Avian Laryngotracheitis Virus Bovine Adenovirus Type 4

Canine Adenovirus (Canine Hepatitis)

Canine Parvovirus

Equine Herpes Virus (Type 1) Equine Herpes Virus (Type 3) Equine Influenza Virus (Type A)

Feline Calicivirus

Feline Panleukopenia Virus Feline Rhinotracheitis Virus Newcastle Disease Virus Simian virus (SV40 Virus)

Not approved in California for use against

the following viruses: Adenovirus Pneumonia African Horse Sickness Virus African Swine Fever Virus

(tested with 1% soil load and 342 ppm hard water)

Bovine Polyoma Virus

Bovine Pseudocowpox Virus

Bovine Viral Diarrh Virus (no hard water)

Calf Rotavirus (no hard water)

Canine Coronavirus

Canine Parainfluenza Virus Chicken Anemia Virus Coital Exantherma Virus

Distemper Virus

Duck Adenovirus (no hard water)

Duck Enteritis Virus

Egg Drop Syndrome Adenovirus

Equine Infectious Anemia Virus (Swamp Fever)

Equine Arteritis Virus (no hard water)

Equine Contagious Abortion Virus Equine Papillomatosis Virus

Equine Influenza Virus (The Cough)

Feline Herpes Virus

Feline Infectious Peritonitis Virus

Feline Parvovirus

Foot and Mouth Disease Virus

Hog Cholera Virus

Infectious Bronchitis Virus Infectious Bursal Disease Virus Infectious Canine Hepatitis Virus Infective Bovine Rhinotracheitis Virus

(no hard water)

Leptospira Canicola Virus

Maedi- Visna Virus Marek's Disease Virus Mouse Parvovirus PCV2 Virus (PMWS) Porcine Parvovirus

Porcine Reproductive and

Respiratory Syndrome Virus (PRRS) Pseudorabies Virus (Aujesky's Disease)

(no hard water)

Rotaviral Diarrhea Virus Swine Influenza Virus

Swine Vesicular Disease Virus

Transmissible Gastroenteritis Virus (TGE)

(no hard water)

Turkey Herpes Virus (no hard water)

Turkey Rhinotracheitis Virus Vesicular Stomatitis Virus

FUNGI

Trichophyton mentagrophytes (2%)

Not approved in California for use against the following fungi: Aspergillus fumigatus Fusarium moniliforme Microsporum canis Trichophyton spp. (Ringworm) Trichophyton spp. (Mud Fever)

PLANT PATHOGENS

Not approved in California for use against plant pathogens:

Alternaria solani
Botrytis cinera
Colletotrichum coccodes
Didymella bryoniae
Fusarium oxysporum
Fusarium solani
Penicillium oxalicum
Phomopsis sclerotioides
Pyrenochaeta lycoopersici
Pythium aphanidermatium
Rhizoctonia solani
Sclerotinia sclerotiorum
Thielaviopsis basicola
Verticillium dahliae
Xanthomonas axonopodis

VIRKON®S DILUTION CHART

Fill container with desired amount of water and add Virkon®S powder or tablet(s) to achieve solution concentration. For a 1% solution, add one (1) tablet to one pint of water or one sachet to one gallon of water.

Solutions are stable for 7 days. Do not soak metal objects in Virkon®S for long periods – 10 minutes is maximum necessary contact time. One gallon of solution is sufficient to treat 135 square feet. *The 0.5% solution is currently not approved for use in California.

	o.5% Solution*	1% Solution	2% Solution	
1 Gallon		1 Sachet	2 Sachets	
2 Gallons	1 Sachet	2 Sachets	4 Sachets	

-	o.5% Solution*	1% Solution	2% Solution	
1 Pint		1 Tablet	2 Tablets	
1 Gallon	4 Tablets	8 Tablets	16 Tablets	

DIRECTIONS FOR SE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INSTRUCTIONS – POULTRY AND FARM PREMISES:

- Remove all poultry or other animals and feeds from premises, trucks or other vehicles, coops, crates or other enclosures.
- Remove all litter droppings and manure from floors, walls and surfaces of barns pens, stall, chutes and other facilities and fixtures occupied or traversed by poultry or other animals.
- 3. Empty all troughs, racks, and other feeding and watering appliances.
- 4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5. Saturate surfaces with the disinfecting solution for a period of 10 minutes.
- Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
- Ventilate buildings, cars, boats, coops, and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent and rinse with potable water before reuse.

POULTRY PRODUCTION AND RATITE PRODUCTION

CONTROLS: Viruses of Newcastle Disease, Avian Laryngotracheitis and Avian Influenza; Bacteria of Streptococcus pyogenes, Klebsiella pneumoniae, Escherichia coli, Salmonella typhimurium, Salmonella enterica, Pseudomonas aeruginosa, Staphylococcus aureus, Staphylococcus epidermidis and Mycoplasma gallisepticum. Not approved in California for use against the following organisms: Viruses of Infectious Bursal Disease, Infectious Bronchitis Virus, Marek's Disease, Egg Drop Syndrome, Turkey Herpes Virus, Duck Viral Enteritis; FUNGI (molds and yeasts, not approved for use in California), Aspergillus flavus, Fungi of Aspergillus fumigatus and Bacteria of Bordetella avium, Helicobacter pylori.

HATCHERIES: Virkon®S at 1% s ion can be used for cleaning and disinfecting hatchers, setters, evaporative coolers, humidifying systems, ceiling fans, chicken houses, transfer trucks, trays, and plastic chick boxes. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

BROILER/BREEDER HOUSES: Follow General Instructions to remove poultry and preclean area to be treated. Spray floors and walls with Virkon®S at 1% solution. Thoroughly wash waterers and feeders with a 1% solution of Virkon®S. After contact for 10 minutes, rinse with potable water. Do not house poultry or use equipment until treatment has dried.

PROCESSING PLANTS: Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings and floors. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry.

SWINE PRODUCTION

CONTROLS: Bacteria of; Actinobacillus
Pleuropneumoniae and Clostridium perfringens;
Fungi of Trichophyton mentragrophytes (2%).
Not approved in California for use against the
following organisms: Viruses of Hog Cholera,
Swine influenza, Porcine Parvovirus, Porcine
Reproductive and Respiratory Syndrome Virus
(PRRS); Pseudorabies, Rotoviral Diarrhea, African
Swine Fever, Fungi of Fusarium moniliforme, Foot
and Mouth Disease and Bacteria of Treponema
hyodysenteriae.

Follow General Instructions to remove swine and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide for cleaning and disinfecting farrowing units, nurseries, finisher houses, processing plants, and agricultural production equipment such as trucks, waterproof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

EQUINE PRODUCT! BROAD SPECTRUM EQUINE DISINFECTANT/ DETERGENT/WASH FOR CLEANING AND DISINFECTING STABLES AND EQUIPMENT **CONTROLS** Viruses of Newcastle Equine herpes virus Type 1 and Type 3 and Equine Influenza. Bacteria of: Brucella abortus, Clostridium perfringens, Dermatophilus congolenisis (at 2%), Pseudomonas aeruginosa, Salmonella typhimurium and Straphylococcus aureus. Fungi of Trichophyton mentagrophytes (at 2%). Not approved in California for use against the following organisms: Fungi of Fusarium moniliforme. Viruses of African Horse Sickness, Equine Viral Arteritis (Pink Eye), Coital Exantherma, Myeloencephalopathy, Rhinopneumonitis, Equine Contagious Abortion, Equine Papillomatosis, Equine Infectious anemia (Swamp Fever), Adenovirus Pneumonia, Equine Influenza (The Cough) and Rhinitis; Bacteria of Clostridial Diarrhea, Fistulous Withers (Poll Evil), Taylorella equigenitalis, Bordetella bronchiseptica, Streptococcus equi (Strangles) and Pseudomonas mallei (Glanders); Fungi of Dermatophytosis

APPLICATIONS: For cleaning and disinfecting all hard, non-porous surfaces, equipment, utensils and instruments in Veterinary practices, kennels, stables, catteries, etc.

(Ringworm) and Dermatophylosis (Mud Fever).

USES: Stables, Horse Boxes, Box Stalls, Tack, Equipment, and Feed Rooms: Follow general instructions to remove animals from area to be treated. Thoroughly clean and dry [dry clean] surfaces, then wash the area manually or with pressure washer with a 1% Virkon®S Disinfectant and Virucide* solution, saturating surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

To Clean Blankets, Saddle Pads and Rugs: Not an approved use in California: Using a 1% solution of Virkon®S, Shampoo by hand or spray lightly with a hand-sprayer and leave to dry. Shake or vacuum to remove residue.

BOVINE PRODUCTION

CONTROLS: Bovine Adenovirus Type 4; Fungi of Trichophyton mentragrophytes(2%). Not approved in California for use against the following organisms:

Bacteria of Moraxella bovis; Fungi of Fusarium moniliforme. Viruses of Calf rotavirus, Infectious Bovine Rhinotracheitis, Pseudorabies, Foot and Mouth Disease and Bacteria of Haemophilus somnus.

Follow General Instructions to remove livestock and preclean area to be treated. Use a 1% solution of Virkon®S Disinfectant and Virucide* to clean and disinfect areas associated with bovine housing stabling, hospital quarantine pens, feedlot facilities, and agricultural production equipment: such as trucks, water-proof footwear (such as rubber boots), and associated livestock equipment and instruments. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse.

COMPANION ANIMALS

CONTROLS: Viruses of Canine Parvovirus and Feline calicivirus; Bacteria of Staphylococcus aureus, Streptococcus pyogenes, Klebsiella pneumoniae, and Pseudomonas aeruginosa. Fungi of Trichophyton mentragrophytes (2%). Not approved in California for use against the following organisms: Viruses of Distemper, Leptospira canicola, Feline parvovirus, Feline herpes; Fungi of Microsporum canis.

APPLICATION: Use a 1% solution of Virkon®S Disinfectant and Virucide* as a "one step" cleaning and disinfecting procedure (Remove Gross filth and heavy soil deposits before application of the disinfecting/cleaning solution) for all surfaces. equipment, instruments, utensils and cages, caging systems, within or associated with Veterinary Medical Hospitals, animal infectious disease wards, quarantine areas, Humane Society facilities, laboratory animal quarters, grooming and boarding facilities, kennels, catteries and animal transportation vehicles. Saturate surfaces with a 1% solution of Virkon®S with a cloth, mop, mechanical spray, or sponge for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S Disinfectant and Virucide* for long periods 10 minutes is maximum contact time.

GREENHOUSES AN LORTICULTURE

Virkon®S is intended to disinfect inanimate environmental surfaces: such as floors, walls, glasshouse structures, ventilation and other equipment, utensils, trays and other containers, water systems, evaporative coolers, storage rooms, and vehicles in greenhouses and other horticultural settings prior to introduction or reintroduction of plants, seeds or soil.

Not approved in California for use on ventilation and other equipment and water systems. It is not intended to directly affect agricultural production and must not be applied to plants, seeds, or soil. If necessary, remove or cover these items prior to use of the product.

FOR SURFACES AND EQUIPMENT

- Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- 2. Use a dilution of 1:100 or 1.3 oz. Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. Not approved in California for use at 1:50 dilution on surfaces that have not been pre-cleaned with water to remove organic deposits.
- Apply solution with mop, sponge, or power sprayer to thoroughly wet all surfaces.
- 4. Heavy growth of algae or fungi may have to be scrubbed off following application.
- 5. Reapply as often as needed for control.

FOR CLEAN NON-POROUS SURFACES

Pots, flats, trays: Use a dilution of 1:100 or 1.3 oz. per gallon of clean water. Soak tools to ensure complete coverage.

Work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1.3 oz. of Virkon®S per gallon of clean water. Use a dilution of 1:50 or 2.6 oz. of Virkon S per gallon of clean water if surfaces that are to be treated have not been precleaned with water to remove organic deposits.

For evaporative coolers: Not approved for use in California. Treat existing algae and slime-contaminated surfaces with a 1:100 dilution of Virkon®S. Treat cooler water every week with a dilution of 1:200 or 0.65 oz. of Virkon S for every gallon of cooler water. Virkon®S may also be used to disinfect irrigation tanks and lines. Not an

approved use in California. Ru⁻ 1% solution through the system or soak equipment in a 1% solution. Let stand for ten minutes and flush system with clean water after treatment.

AQUACULTURE

(Not approved for this use in California): Virkon®S intended to disinfect inanimate environmental surfaces associated with aquaculture including vehicles, nets, boots, waders, dive suits, hoses, brushes and other similar equipment. Virkon®S may also be used in foot dips. Virkon®S must not be applied directly to water.

Equipment used in separate sites, tanks, ponds in aquacultural settings should be disinfected before each new use by soaking for 20-30 minutes in a 1% Virkon®S solution followed by a water rinse.

EMERGENCY DISEASE CONTROL

(ANIMAL HEALTH) (Not approved for this use in California): Disinfection helps to control and prevent the cross-contamination of OIE List A organisms including Foot and Mouth Disease Virus, African Horse Sickness Virus, Vesicular Stomatitis Virus, Classical Swine Fever Virus (Hog Cholera Virus), African Swine Fever Virus, Newcastle Disease Virus, and Highly Pathogenic Avian Influenza Virus, Swine Vesicular Disease

Virus, and Mycopla a mycoides (Contagious Bovine Pleuropneumonia).

Use a 1% solution of Virkon®S to clean and disinfect agricultural facilities and equipment, military facilities and equipment, airport facilities and equipment, port facilities and equipment, rail facilities and equipment, quarantine facilities and equipment, slaughter facilities and equipment, and other shipping facilities and equipment where animals or soils suspected of harbouring foot and mouth disease virus might have been previously present.

Within these facilities, treated objects include but are not limited to vehicles, farm equipment (including tractors, ploughing shares, cars and trucks, farm engines, harvesters, loaders, mowers, tillers and slaughter machinery), military equipment (including tanks and troop carriers), and shipping equipment (pallets, bins and containers). Spray Virkon®S at 1% solution to disinfect and clean walls, ceilings, floors, decks, container surfaces, vehicles, wheels, water proof footwear (such as rubber boots), livestock equipment, utensils and instruments. Saturate surfaces for a period of 10 minutes. Allow surfaces to air dry. Rinse waterers and feeders with potable water before reuse. Do not immerse metal objects in Virkon®S for long periods - 10 minutes is maximum contact time.

DISINFECTION LIMITED TO SP' VIC AND KNOWN DISEASE ORGANISM PCV2 VIRUS

(Not approved for this use in California):
The instructions above call for use of a 1% solution for general disinfection. However, Virkon®S is an effective disinfectant for all hard, non-porous surfaces against the following organism at the dilution rate specified below. If the threat is known and limited to the organism below, Virkon®S may be used at the following dilution rate:

Organism	Dilution rate	Oz./Gal.	
PCV2 Virus (PMWS)	1:200	0.7	

USE IN FACILITIES USED FOR TEMPORARY CONFINEMENT OF ANIMALS

Use a 1% solution of Virkon®S to clean and disinfect inanimate surfaces associated with facilities used for the temporary confinement of animals. Sites may include, but are not limited to, barns, sheds, stables, pens, cages, and associated access alleys or walkways.

Virkon®S may also be used to clean and disinfect equipment related to the maintenance of animals found at fairs, exhibitions, animal auction yards, animal show/ boarding facilities, or other similar agricultural facilities designed for the temporary housing of animals.

To ensure that Virkon®S does not come in direct contact with animals, feed, or water, remove animals from treatment site and either remove or cover feed and water apparatus. To ensure precise application on inanimate surfaces, Virkon®S may only be applied using hand-held sprayers, sponges or other absorbent materials. Do not allow Virkon®S to pool on surfaces that may be within reach of animals. Do not allow Virkon®S to come into direct contact with people. Allow Virkon®S to completely dry prior to housing animals, using equipment, or allowing people to contact treated sites.

Manufactured for: E. I. du Pont de Nemours and Company DuPont Animal Health Solutions PO Box 80402 Wilmington, DE 19880-0402 USA

Questions? Call 1-800-441-7515 Outside the US, contact: 1-302-774-1000

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Material Sent for Data Extraction

Reg # <u>71654-6</u>				
Description:				
☐ Material(s) Sent to Data Extraction Contractor				
New Stamped Label Dated <u>5/4/11</u>				
Notification Dated				
☐ New CSF(s) Dated				
Other:				
□ Decision #: <u>447745</u>				
☐ Other Action/Comments:				
Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900). Reviewer: Hally Gagsby				
Phone: 305-6446 Division: AD				
Date: 5/4/1/				

TASK ASSIGNMENT FORM
Antimic oial Division/Regulatory Management unches I/II

A		Completed by Product Manager							
PRO	RODUCT REVIEWER: Stacey Grigsby				RMBII TEAM 34				
Des	Description of Action: Amendment					EPA File Symbol/Reg No.: 71654-6			
FQI	FQPA Action Code: 302 Non-FQPA Action Co			ion Cod	de: Fee for Service Action Code:				
Dec	ecision No. 447765 Submission No. 893		893	290	Fee for Service Fe	· Service Fee: \$			
197	MONTH			DAY	YEAR				
APPLICATION DATE		3	3		2011				
EPA	A PIN DAT	E	4	4		2011			
RE	VIEWER A	SSIGNED DATE	4	4		2011			
DA	TE DUE TO	PM					2011		
DA	TE DUE OU	JT OF AGENCY	T		4	2011			
Тур	oe of Data:	Product Chemistry □	Acute E	fficacy	Environmental Fate	Ecological Effects	Chronic Toxicology	Exposure	
Registrant is updating label per Agency letter dated July 15, 2010 and March 30, 2011 meeting. Electronic label was submitted for review.									
ATTACHMENTS: _X_ LABELING				CSFs	DATAOTH		OTHER		
В	B For Arctic Slope Contract Only								
Con	Contractor: Arctic Slope				Contract No.:	tract No.: TOPO/Alt. TOPO:			
Draft Task: Signature (Est. hrs)				Final Task: Signature (Total hrs)					
C				Reviewers Comments:					
Response Code: 1155				Response Date: MAY - 4 2011					

Attention PM Team:

For additional CSFs, check in earlier volumes including lmaged volumes.

Pages 197-214 - *Confidential Statements of Formula may be entitled to confidential treatment*